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# ***WATER SUPPLY OUTLOOK FOR UTAH***

Prepared by

**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**UTAH STATE DEPARTMENT OF NATURAL RESOURCES -- DIVISION OF WATER RIGHTS**

In cooperation with U.S. Forest Service, Bureau of Reclamation,  
Utah Fish and Game Dept., Utah State University, U.S. National  
Park Service, U.S. Geological Survey, and other Federal, State,  
and private organizations.

AS OF  
**MAY 1, 1972**

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia





# **WATER SUPPLY OUTLOOK FOR UTAH**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

**KENNETH E. GRANT**

ADMINISTRATOR  
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*In Cooperation with*

**HUBERT C. LAMBERT**

STATE ENGINEER  
DIVISION OF WATER RIGHTS  
UTAH STATE DEPT. OF NATURAL RESOURCES

|||||

*Report prepared by*

**BOB L. WHALEY, Snow Survey Supervisor**

SOIL CONSERVATION SERVICE  
SNOW SURVEY SECTION  
FEDERAL BLDG., ROOM 4012  
SALT LAKE CITY, UTAH 84111



# PROSPECTIVE WATER SUPPLIES

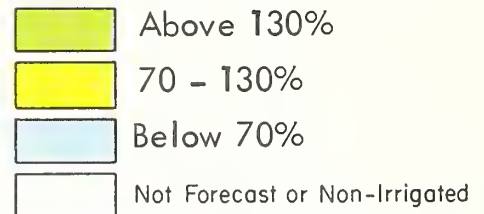
Based on Snow Surveys Made on  
UTAH and BEAR RIVER WATERSHEDS

MAY 1, 1972

Approximate Date



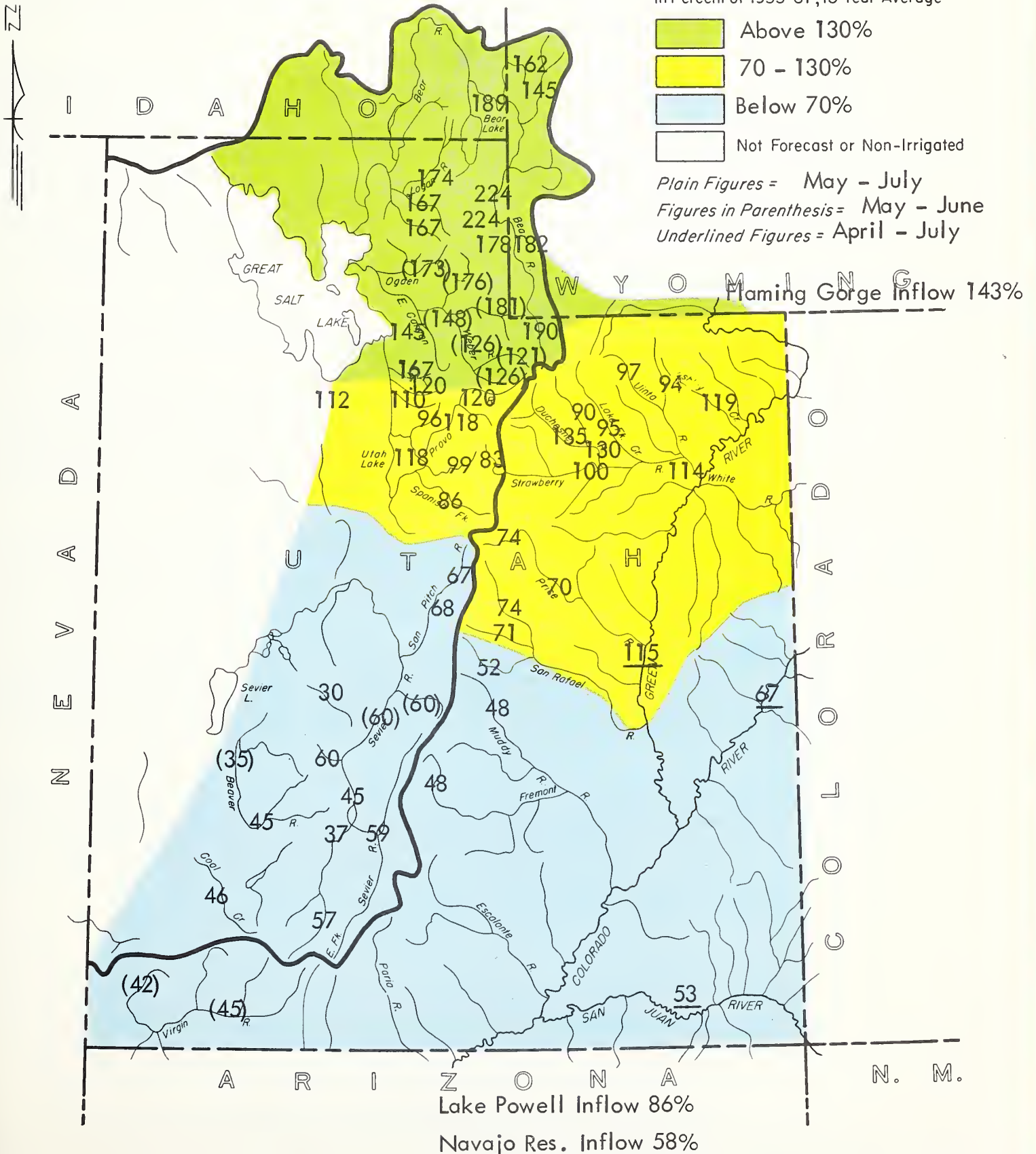
FORECAST STREAM FLOW  
in Percent of 1953-67, 15 Year Average



Plain Figures = May - July

Figures in Parenthesis = May - June

Underlined Figures = April - July







# WATER SUPPLY OUTLOOK

as of

MAY 1, 1972

\* \* \* \* \*  
\* Utah's 1972 Water Supply Outlook varies from "poor" in the south- \*  
\* ern part of the State to "excellent" on northern streams. Reser- \*  
\* voir storage is 138% of the May 1 average. The May 1 snow pack \*  
\* ranges from 0 to 60% of average in southern Utah to 170% of aver- \*  
\* age on Bear River tributaries. \*  
\* \* \* \* \*

Snow Cover increased during April on Bear River tributaries. It now ranges from 128% of May 1 average, south of Evanston, to 170% on the Smiths Fork in Wyoming. Logan River snow cover was 169% of the May 1 average with intermediate elevation snow water accumulations greater than last year on May 1. A line of average snow cover extends across the State between Salt Lake and Provo and through the Uintah mountains. North of this line, May 1 snow water contents range from 100% to 170% and south of this area snow cover diminishes to 0 on many watersheds in southern Utah.

Mountain watershed precipitation was generally average to 160% of the April average in the northern part of the State but southern and eastern Utah Watersheds received as little as 9% of average for the month.

Reservoir Storage in 14 of Utah's major reservoirs, not including Colorado storage facilities, was 138% of the May 1 average for the 1953-67 period. The three Sevier River reservoirs (Otter Creek, Piute, and Sevier Bridge) contain 270,590 acre feet or 168% of average.

Contents of the Colorado River Storage Projects decreased 122,400 acre feet during the month and as of the end of April total storage was 55% of capacity. The elevation of Great Salt Lake was 4199.55 above mean sea level, 2.00 feet higher than a year ago and 8.20 feet higher than the all-time low of Oct. 1963.

Streamflow Forecasts range from 30% of average on Chalk Creek near Fillmore to 241% of average on the Bear near Randolph. Average to more than double average streamflow is expected in the northern half of the State while southern Utah streams can expect 30 to 60% of average for the remainder of the runoff period.

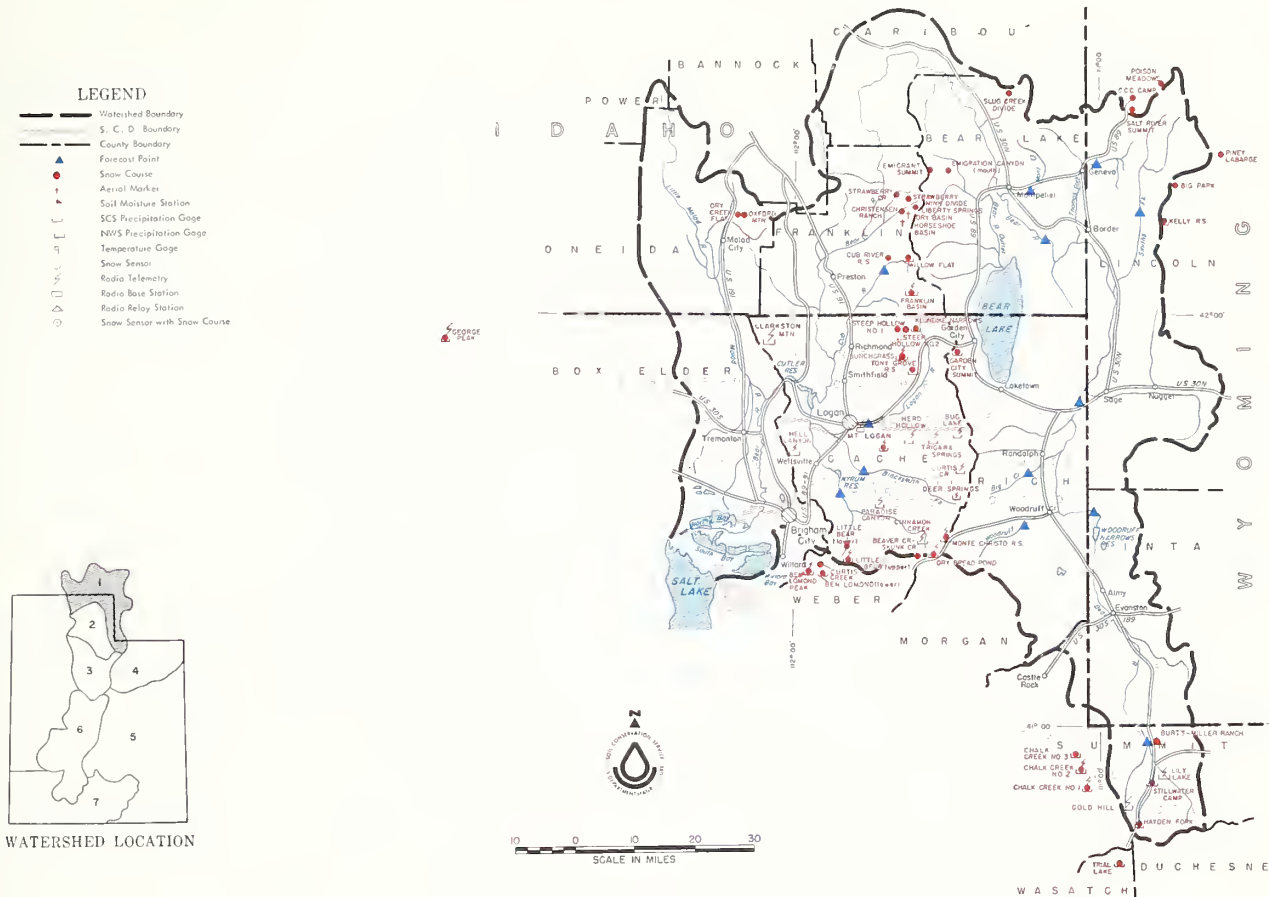
Heavy snowpack with predicted high flows in northern Utah are expected to produce some flooding on the lower Bear River. Water shortages are expected by early to mid-summer in southern Utah unless above normal precipitation occurs during the runoff period.



# WATER SUPPLY OUTLOOK

## BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



The 1972 Water Supply Outlook for the Bear River Drainage remains "excellent".

Snow Cover ranges from 128% of the May 1 average above Evanston to 170% on the Smith's Fork in Wyoming. Snow cover on the Logan increased to 169% of the May 1 average and 160% on the Blacksmith Fork-Little Bear Drainages. April precipitation was above average at all mountain locations on the Bear drainage and many snow courses continued to show good increases to the snow pack on May 1. Intermediate elevation snow cover on the Logan was heavier this year than a year ago on May 1st.

Reservoir Storage is 126% of the May 1 average in Bear Lake and about the same as last year at this time. Woodruff Narrows is still full, Porcupine held 11,000 acre feet and Hyrum held 11,600 acre feet on May 1st.

Streamflow Forecasts range from 140% (140,000 a.f.) for the Bear near Utah-Wyoming line to 241% (135,000 a.f.) at Randolph for the May-July period. The Bear at Harer, Idaho is expected to produce 340,000 a.f. (189%) during the May-Sept period with Smith's Fork contributing 145% of average and Thomas Fork 162% of its average flow. Big Creek is forecast to produce 8,500 a.f. (224%) and woodruff Creek 20,000 a.f. (178%).

The Logan River is forecast to produce 150,000 a.f. (174%) during the May-July period and is expected to have a maximum mean daily snow melt peak between 1200-1500 cfs. Blacksmith Fork is expected to produce 50,000 a.f. (167%) May-July and Little Bear is forecast to produce 31,000 a.f. (167%) during the May-June period. The Little Bear is expected to have a maximum mean daily snow melt peak between 650-850 cfs. Snow cover is heavy again this year and peak flows could exceed the ranges indicated if an abnormally warm period occurs early in the melt period.

MAY 1, 1972

## STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year      Average †
<u>BEAR RIVER SYSTEM</u>				
Bear at Harer, Idaho	340	189	May-Sept	180
Bear nr Randolph	135	241	May-July	56
Bear nr Ut-Wyo State Line	140	140	May-July	129      100
Bear nr Woodruff	160	182	May-July	88
Big Crk nr Randolph	8.5	224	May-July	3.8
Blacksmith Fork nr Hyrum	50	167	May-July	73      30
Little Bear nr Paradise	31	167	May-June	18.6
Logan nr Logan (1)	150	174	May-July	178      86
Smith's Fork nr Border, Wyoming	157	145	Apr-Sept	108
Woodruff Crk nr Woodruff, Utah	20	178	May-July	11.2
Thomas Fork	51	162	Apr-Sept	31

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Bear River</u>	Bear Lake	1421.0	1204.1	1202.0	951.9
	Woodruff Narrows	26.5	26.5	26.5	- -
<u>Little Bear</u>	Hyrum	15.3	11.6	11.9	15.1
	Porcupine	11.3	11.0	11.3	- -

## PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Big Creek near Randolph	70 - 110	43
Logan River near Logan	1200 - 1500	911
Woodruff Creek nr Woodruff	240 - 410	220
Little Bear nr Paradise	650 - 850	439
(1) - Observed flow corrected for change in storage and diversions (3) - Data obtained by radio - USU-SCS cooperative sites b - Average of all past record within the 15-yr period, but less than 15 years x - Adjacent drainage * - Partly estimated		



# BEAR RIVER BASIN

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
UPPER BEAR RIVER (Above Harer, Idaho)						
Big Park x	8700	4/24	78	31.9	33.8	20.2
Burts-Miller Ranch	7900	4/21	2	0.9	0.0	1.1b
CCC Camp	7500	4/28	27	13.2	18.2	5.9
Hayden Fork	9400	4/21	52	20.5	13.7	14.7b
Kelly Ranger Station	8200	4/24	68	28.6	30.3	17.2
Monte Cristo R.S.	8960	4/27	82	37.8	39.2	24.6
Piney-LaBarge x	8820	4/29	67	33.0	37.9	- -
Poison Meadows x	8500	4/29	111	46.7	49.7	31.5*
Salt River Summit x	7900	4/28	44	21.4	26.3	11.9*
Stillwater Camp	8550	4/21	24	9.7	7.8	6.6b
Trial Lake x	9800	4/29	85	34.8	33.4	27.3
LOWER BEAR RIVER (Below Harer, Idaho)						
Beaver Crk-Skunk Crk	7150	4/27	11	4.7	5.8	3.3
Christensen Ranch	5600	5/1	0	0.0	0.0	0.0*
Cub River R.S.	5400	5/1	0	0.0	0.0	0.0*
Dry Bread Pond x	8230	4/27	47	21.4	22.5	13.9
Emigrant Summit	7350	4/28	65	32.1	38.6	21.5*
Garden City Summit	7600	4/25	59	27.5	25.8	14.7
Klondike Narrows	7400	4/25	47	23.0	25.6	13.2b
Liberty Spring	8600	5/1	120	53.0	61.8	39.4*
Little Bear (lower)	6000	4/26	0	0.0	0.0	0.5b
Little Bear (upper)	6550	4/26	7	2.8	2.6	2.3b
Monte Cristo R.S.	8960	4/27	82	37.8	39.2	24.6
Steep Hollow #1	8500	4/25	121	52.9	58.7	35.3b
Steep Hollow #2	7700	4/25	72	34.8	39.0	20.3b
Strawberry Creek	5800	5/1	0	0.0	4.3	2.1*
Strawberry Mink Divide	6800	5/1	39	19.2	29.0	14.1*
Tony Grove R.S.	6250	4/25	9	4.2	1.8	0.8b
Willow Flat	6100	5/1	0	0.0	6.2	3.3*
Slug Creek Divide	7225	4/28	38	19.6	- -	- -



# PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>BEAR RIVER</u>							
Burt's - Miller Ranch	7900	4/21	4.12	- -	14.70	- -	- -
Chalk Creek #1 x	9100	5/1	6.58	- -	31.24	-- -	- -
Chalk Creek #2 x	8000	5/1	6.49	3.32*	24.45	18.28*	134
Chalk Creek #3 x	7500	4/24	5.16	3.91b	21.58	16.64*	130
Cinnamon Crk (3)	7300	5/1	4.60	- -	25.83	- -	- -
Clarkston (3)	6300	5/1	4.03	- -	29.62	- -	- -
Curtis Creek (3)	8450	Not measured		- -		- -	
Dry Bread Pond	8230	4/27	5.35	4.00*	28.38	23.90*	123
Franklin Basin	8000	5/1	7.34	- -	38.35	- -	- -
Garden City Summit	7600	4/25	5.48	3.40*	32.14	21.30*	151
Gold Hills (3)	10000	5/1	6.50	- -	32.73	- -	- -
Hayden Fork	9300	4/21	5.60	- -	33.89	- -	- -
Kelly R.S.	8200	4/24	4.40	- -	29.10	- -	- -
Klondike Narrows	7400	5/1	8.26	3.49*	38.79	26.76*	145
Little Bear (upper)	6850	5/1	6.06	4.46*	32.68	22.92*	143
Monte Cristo #2	8960	4/27	7.22	5.48b	39.19	30.13b	130
Sagebrush Flat x	6300	4/27	3.88	2.63b	22.90	15.99b	143
Salt River Summit	7900	4/28	3.80	2.54b	27.10	18.23*	149
Stillwater Camp	8550	4/21	4.25	2.94b	20.02	15.52*	129
Tony Grove R.S. (SCS)	6250	5/1	4.91	3.40b	35.53	22.15b	160
Trial Lake x	9800	4/29	5.51	3.87	36.28	25.05*	145
Willow Flat	6100	5/1	6.15	4.02b	32.80	25.17	130

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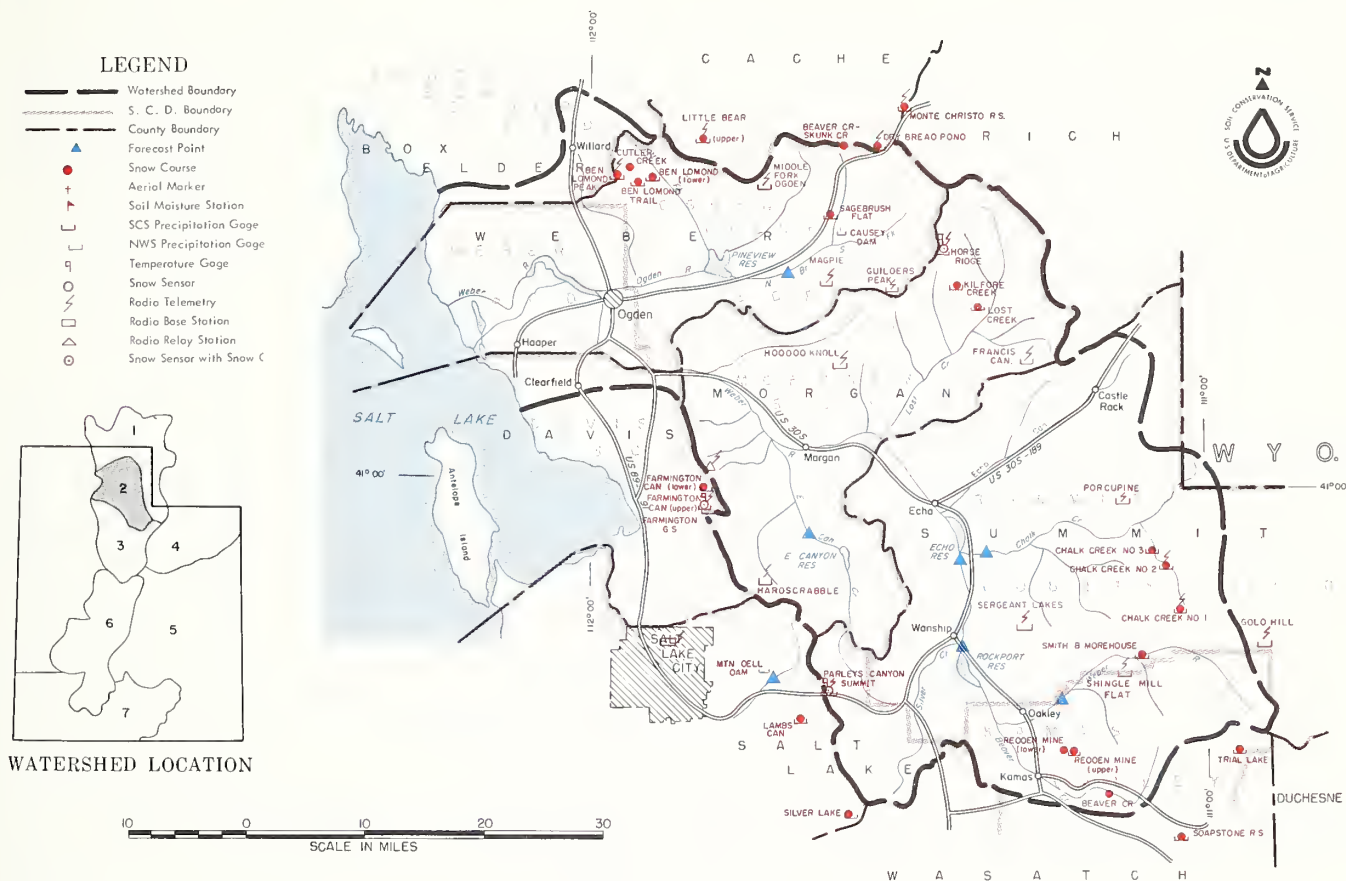
## FIRST CLASS MAIL

*"The Conservation of Water begins with the Snow Survey"*

# WATER SUPPLY OUTLOOK

## WEBER-OGDEN WATERSHEDS in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



MAY 1, 1972

The 1972 Water Supply Outlook for the Ogden and Weber River Basins remain "above average to excellent".

Snow Cover increased during April and now ranges from 128% of the May 1 average on the Upper Weber to 176% of average on the Ogden River. Lost Creek snow cover is 150% of average and about 25% more water content than last year at this time. East Canyon and Chalk Creek snow cover is 130% of the May 1 average. Park City Summit snow pillow still had 104 inches of depth and 44.7 inches of water content on May 3rd.

Reservoir Storage is above average in all reservoirs except those deliberately held down to accept the peak runoff. Pineview had 84,600 a.f. and Willard Bay 176,700 a.f. on May 1st. East Canyon had 43,300 a.f. - Rockport had 23,800 a.f. - Echo had 65,800 a.f. and Lost Creek had 12,500 a.f. on May 1.

Streamflow Forecasts range from 126% of average (105,000 a.f.) for the Weber at Oakley during the May-June period to 207% (17,000 a.f.) for Lost Creek for the same period. Chalk Creek is expected to produce 38,000 a.f. (181%) and East Canyon Creek 16,000 a.f. (148%). The Inflow to Pineview Reservoir is forecast to be 102,000 a.f. (173%) and the South Fork of the Ogden is expected to produce 58,000 a.f. (176%) during the May-June period. The Inflow to Rockport Reservoir is forecast to be 115,000 a.f. (121%) during the same period. Maximum mean daily peak flow is expected to be between 350 to 500 cfs on Lost Creek and between 800 to 1100 cfs for the South Fork of the Ogden near Huntsville if near normal temperature and precipitation occurs during the runoff period.

MAY 1, 1972

**STREAMFLOW FORECASTS**

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>WEBER-OGDEN RIVERS</u>					
Chalk Crk. at Coalville	38	181	May-June	15.4 92	21
East Canyon Crk. nr Morgan (2)	16.0	148	May-June		10.8
Hardscrabble Crk nr Porterville	15.0	142	May-June		10.6
Lost Crk nr Croydon, Utah	17.0	207	May-June		8.2
Pineview Reservoir Inflow (3)	102	173	May-June		59
South Fork Ogden nr Huntsville	58	176	May-June		33
Rockport Reservoir Inflow (4)	115	121	May-June		95
Weber nr Coalville (5)	106	126	May-June		84
Weber nr Oakley	105	126	May-June		83

**PEAK FLOWS** (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Lost Creek near Croydon	350 - 500	171
So. Fork Ogden nr Huntsville	800 - 1100	643

**RESERVOIR STORAGE (Thousand Acre Feet)** END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Ogden</u>	Causey	7.1	1.8	1.1	- -
	Pineview	110.1	84.6	59.7	50.9
<u>Weber</u>	East Canyon	48.1	43.3	41.9	18.5
	Echo	73.9	65.8	61.0	51.2
	Lost Creek	20.0	12.5	10.4	- -
	Rockport	60.9	23.8	26.3	27.3
	Willard Bay	193.3	176.7	183.8	- -
(1) - Observed flow corrected for change in storage and diversions (2) - Inflow record as computed by U.S. Bureau of Reclamation b - Average of all past records within the 15-year period, but less than 15 years x - Adjacent drainage ** - Snow pillow reading cooperatively by Park City Resort * - Partly estimated (3) - Data obtained by radio - USU-SCS cooperative sites					



WEBER-OGDEN WATERSHEDS

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>OGDEN RIVER</u>						
Beaver Crk-Skunk Crk	7150	4/27	11	4.7	5.8	3.3
Ben Lomond (lower)	6000	4/26	13	6.1	2.3	3.7b
Ben Lomond Peak	8000	4/26	88	43.1	40.1	30.6
Ben Lomond Trail	6000	4/26	16	7.2	4.9	5.3b
Cutler Creek	6780	4/26	61	29.6	24.1	23.8b
Dry Bread Pond	8230	4/27	47	21.4	22.5	13.9
Monte Cristo R.S.	8960	4/27	82	37.8	39.2	24.6
Sagebrush Flat	6300	4/27	0	0.0	0.0	0.0b
<u>WEBER RIVER</u>						
Beaver Creek R.S.	7500	4/29	0	0.0	0.0	1.1
Chalk Creek #1	9100	4/24	74	29.6	28.6	23.2
Chalk Creek #2	7900	4/24	45	18.2	14.4	11.8
Chalk Creek #3	7500	4/24	0	0.0	0.0	1.9*
Farmington Canyon (lower)	6950	4/28	52	23.6	22.4	17.8
Farmington Canyon (upper)	8000	4/28	96	43.9	37.1	27.1b
Lamb's Canyon x	6600	4/27	27	11.5	9.0	6.3
Lost Creek Reservoir	6125	Not Measured			- -	- -
Park City Smt.	9300	5/3	104	44.7	- -	- -
Parley's Canyon Smt.	7500	4/27	37	15.5	11.8	10.4
Redden Mine (lower)	8500	4/26	41	16.2	18.0	14.9*
Redden Mine (upper)	9000	4/26	48	20.0	20.5	17.0
Silver Lake x	8725	4/28	70	33.6	25.5	24.2
Smith & Morehouse	7600	4/24	15	5.0	5.5	5.8
Trial Lake x	9800	4/29	85	34.8	33.4	27.3
Horse Ridge	8260	4/28	62	31.3	25.2	20.2
Kilfore Creek	7300	4/28	29	13.6	- -	9.7b

# PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>OGDEN RIVER</u>							
Ben Lomond (lower)	6000	4/26	6.06	4.72*	41.14	28.19*	146
Ben Lomond Trail	6000	4/26	6.12	7.07b	41.28	31.72*	130
Causey Dam	5500	4/27	3.79	2.95b	24.59	- -	- -
Dry Bread Pond	8230	4/27	5.35	4.00*	29.38	23.90*	123
Monte Cristo #2 x	8960	4/27	7.22	5.48b	39.19	30.13b	130
Sagebrush Flat	6300	4/27	3.88	2.63b	22.90	15.99b	143
<u>WEBER RIVER</u>							
Chalk Creek #1	9100	5/1	6.58	- -	31.24	- -	- -
Chalk Creek #2	7900	5/1	6.49	3.32*	24.45	18.28*	134
Chalk Creek #3	7500	4/24	5.16	3.91b	21.58	16.64b	130
Farmington Guard Station	7500	4/28	7.70	5.54	47.68	32.30	148
Farmington Rice	7000	4/28	7.14	5.54	42.65	29.92	142
Horse Ridge	8260	4/28	5.60	- -	40.05	- -	- -
Lost Creek Reservoir	6125	Not	Measured	- -	- -	- -	- -
Mt. Dell Dam x	5500	4/30	4.82	2.88	17.57	14.72	119
Parley's Canyon Smt.	7500	4/27	7.20	4.71*	32.50	24.04*	135
Redden Mine (upper)	9000	4/26	5.10	- -	30.40	- -	- -
Sargeant Lakes	8400	No	data	- -	- -	- -	- -
Silver Lake (Brighton) x	8725	5/1	7.45	6.58	37.63	30.73	122
Smith & Morehouse	7600	4/26	4.68	3.54*	25.95	19.99*	130
Trial Lake x	9800	4/29	5.51	3.87	36.28	25.05*	145

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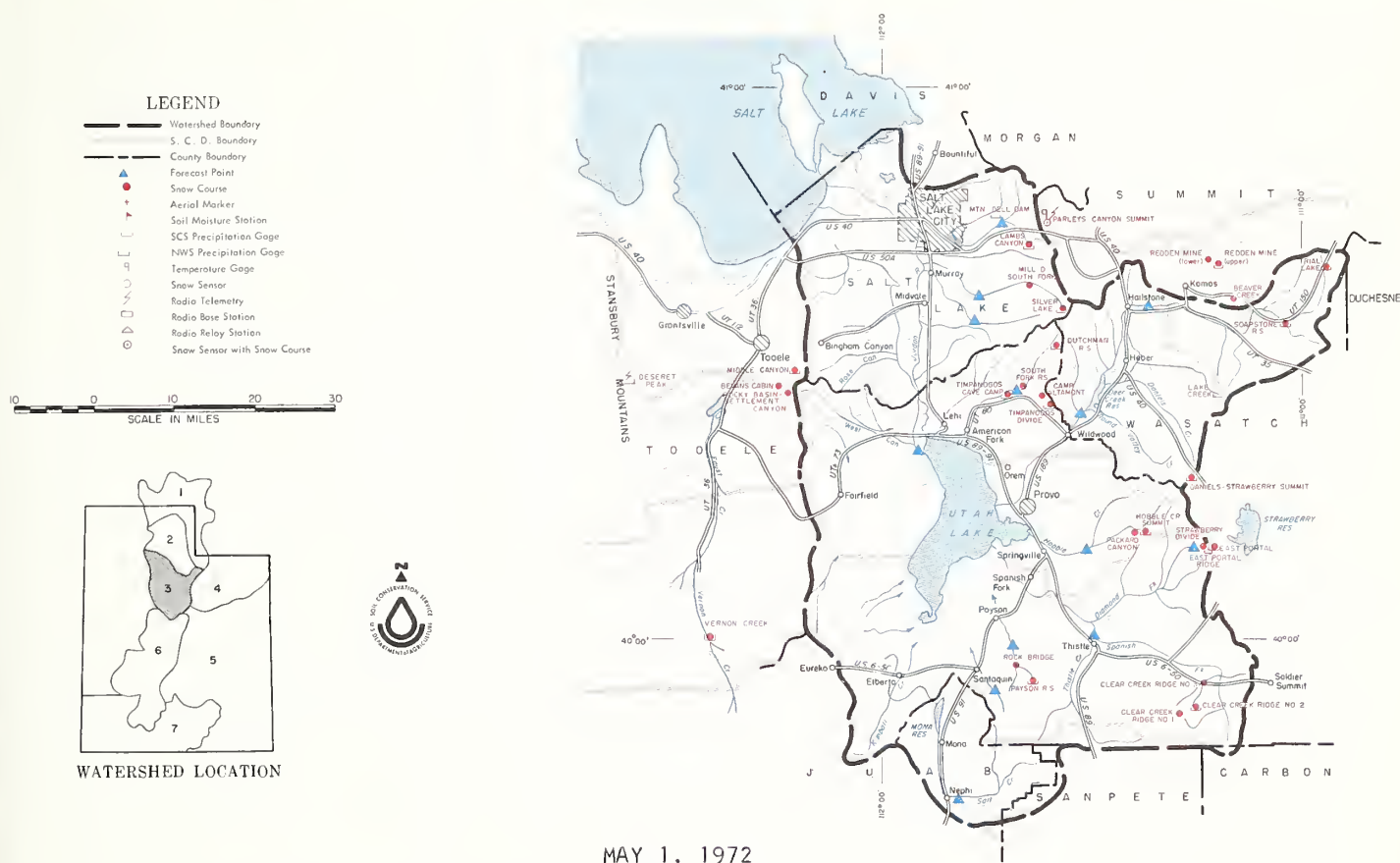
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# WATER SUPPLY OUTLOOK

## UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



The 1972 Water Supply Outlook for Utah Lake, Jordan River and Tooele Watersheds remains "near average" to "above average".

Snow Cover ranges from practically no snow remaining on Hobbie Creek to 134% of the May 1 average on Parleys and Cottonwood Creeks above Salt Lake City. Snow cover on Spanish Fork River is 65% of average and Payson Creek 34% of the May 1 average. The Upper Provo River snow cover was 98% of the May 1 average and Tooele Watershed snow cover averaged 113% of the May 1 average for the 1953-67 period.

Reservoir Storage is still above average with Utah Lake now at 855,500 a.f. of useable storage and 0.3 foot below Compromise. Strawberry now holds 219,400 a.f. or 9,200 a.f. more than last year at this time and Deer Creek held 129,000 a.f. on May 1 or about 18,100 a.f. more than last year on May 1st.

Streamflow Forecasts now range from 83% of average for Strawberry Inflow 26,000 a.f.) to 167% (12,000 a.f.) for Parleys Creek for the May-July period. The Provo River is forecast to produce 98,000 a.f. (120%) at Hailstone and 103,000 a.f. (118%) below Deer Creek Dam. American Fork River is expected to produce 23,000 a.f. (96%) and Hobbie Creek 10,000 a.f. (99%) May through July. Utah Lake Inflow is forecast at 118% of average or 160,000 a.f. during the May-July period.

Big Cottonwood Creek is expected to produce 36,000 a.f. (120%) and Little Cottonwood 34,000 a.f. (110%) during the May-July period. Farmington Creek is forecast at 145% of average (8,100 a.f.) and Settlement Canyon Creek near Tooele is expected to produce about 1,900 acre feet (112%) during the May through July period.

MAY 1, 1972

## STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>PROVO RIVER &amp; UTAH LAKE</u>					
American Fork nr American Fork	23	96	May-July		24
Hobble Crk. nr Springville	10.0	99	May-July		10.1
Provo nr Hailstone (6)	98	120	May-July		82
Provo below Deer Crk. Dam (7)	103	118	May-July		87
Spanish Fork at Thistle	18.0	86	May-July		21
Strawberry Reservoir Inflow (8)	26	83	May-July		31
Utah Lake Inflow	160	118	May-July		135
<u>JORDAN RIVER &amp; SALT LAKE</u>					
Big Cottonwood nr SLC	36	120	May-July		30
Farmington Crk nr Farmington	8.1	145	May-July		5.6
Little Cottonwood Crk nr SLC	34	110	May-July		31
Parley's Crk nr SLC	12.0	167	May-July		7.2
Settlement Canyon nr Tooele	1.9	112	May-July		1.7b

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average <sup>†</sup>
<u>Spanish Fork</u>	Strawberry	270.0	219.4	210.2	132.2
<u>Utah Lake</u>	Utah Lake	883.9	855.5	883.9	620.4
<u>Provo</u>	Deer Creek	149.7	129.0	110.9	97.0
(1) - Observed flow corrected for change in storage and diversions x - Adjacent drainage b - Average of all past records within the 15-year period, but less than 15 years * - Partly estimated					

# UTAH LAKE, JORDAN RIVER & TOOELE WATERSHEDS

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>UTAH LAKE</u>						
Beaver Creek R.S.	7500	4/29	0	0.0	0.0	1.1
Camp Altamont	7300	4/28	0	0.0	0.0	4.9
Clear Creek Ridge #1	9200	4/27	31	13.6	15.9	15.2b
Clear Creek Ridge #2	8000	4/27	11	4.6	7.5	7.4b
Clear Creek Ridge #3	6600	4/27	0	0.0	0.0	0.1b
Daniels Strawberry Smt.	8000	4/24	0	0.0	4.6	6.5
Dutchman R.S.	7560	4/28	0	0.0	2.6	8.1b
East Portal	7560	4/28	0	0.0	- -	10.1b
Hobble Creek Summit	7420	4/26	0	0.0	2.0	5.1b
Packard Canyon	6400	4/26	0	0.0	0.0	0.8b
Payson R.S.	8050	4/26	18	6.3	8.3	11.7b
Rock Bridge	6750	4/26	0	0.0	0.0	3.4b
Soapstone R.S.	7800	4/29	4	1.5	4.2	5.7
Strawberry Divide	8000	Not Measured			- -	- -
Timpanogos Divide	8140	4/28	28	14.2	13.8	18.4
Trial Lake	9800	4/29	85	34.8	33.4	27.3
<u>JORDAN RIVER &amp; TOOELE VALLEY</u>						
Bevan's Cabin	6450	4/24	8	3.5	5.6	1.7b
Lamb's Canyon	6600	4/27	27	11.5	9.0	6.3
Middle Canyon - Tooele	7000	4/24	9	3.8	10.9	6.0b
Mill D South Fork	7400	4/28	28	13.4	15.5	11.9
Parley's Canyon Smt. x	7500	4/27	37	15.5	11.8	10.4
Rocky Basin-Sttlmt. Canyon	8900	4/28	67	28.7	32.0	24.2b
Silver Lake	8725	4/28	70	33.6	25.5	24.2
Vernon Creek	7500	4/24	0	0.0	1.6	- -
Snowbird Lodge	8200	5/2	35	15.8*	- -	- -
Lamb's Canyon #2	7400	4/27	23	10.2	- -	- -

# PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>UTAH LAKE</u>							
Clear Creek Ridge #2	8000	4/27	6.40	2.97b	22.18	17.29*	128
Daniels-Strawberry Smt.	8000	4/24	2.64	2.72*	22.33	19.83*	113
Dutchman R.S.	7560	4/28	4.00	3.91b	29.25	23.17b	126
East Portal Ridge	7800	4/28	2.00	3.63	20.61	20.53*	100
Hobble Creek Smt.	7420	4/26	2.50	- -	21.87	- -	- -
Payson R.S.	8050	4/26	4.30	3.59b	20.83	20.56	101
Soapstone R.S.	7800	4/29	3.25	2.94*	22.76	17.61*	129
Timpanogos Divide	8200	4/28	5.35	3.69	31.20	27.47	114
Trial Lake	9800	4/29	5.51	3.87	36.28	25.05*	145
<u>JORDAN RIVER &amp; TOOELE VALLEY</u>							
Lamb's Canyon #2	7400	4/27	5.60	- -	32.06	- -	- -
Middle Canyon	7000	4/24	6.15	4.42b	20.07	20.85*	96
Mt. Dell Dam	5500	4/30	4.82	2.88	17.57	14.72	119
Parley's Canyon Smt.	7500	4/27	7.20	4.71	30.65	24.04	127
Rocky Basin-Setlmt. Cyn.	8900	4/28	6.40	- -	26.10	- -	- -
Silver Lake (Brighton)	8725	5/1	7.45	6.58	37.63	30.73	122
Vernon Creek	7500	4/24	1.88	- -	17.70	- -	- -

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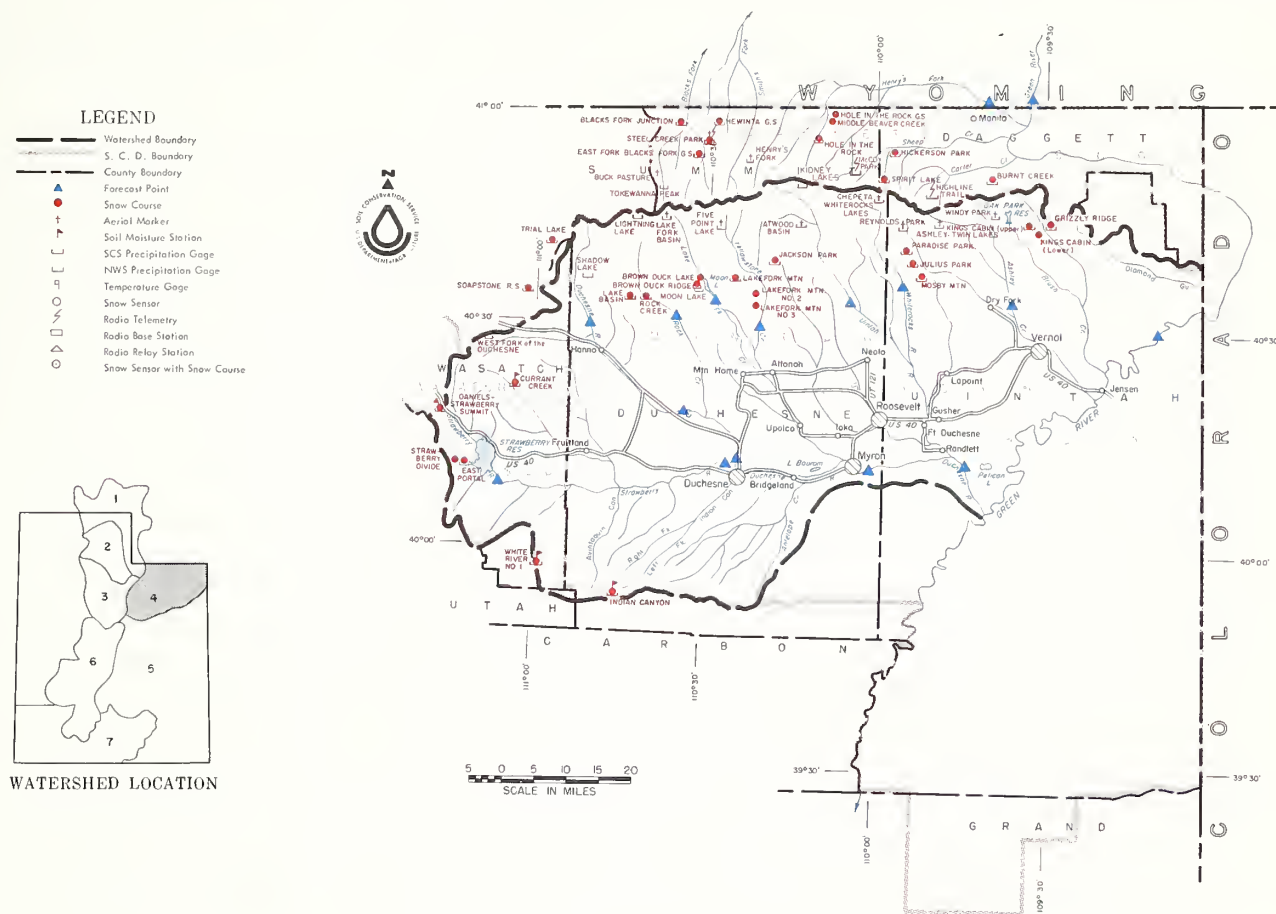
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# UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



MAY 1, 1972

The 1972 Water Supply Outlook for Uintah Basin and Daggett SCD's remains "near average".

Snow Cover ranges from 74% of the May 1 average on the lower Strawberry river to 136% on the Uintah-Whiterocks Rivers. Duchesne River above Tabiona has 92% of the average May 1 snow cover and Lakefork 83% of average. Ashley Creek is 125% of average; the Blacksfork and Smith's Fork 132% of the May 1 average. Sheep Creek courses were 88% of the May 1 average. The aerial snow depth markers were flown cooperatively by the State Wildlife Resources Division on April 27 and generally showed more snow than last year at this time except at Buck Pasture and Reynolds Park where estimated water contents were 2 to 3 inches less than last year on May 1.

Reservoir Storage is now 15,300 acre feet in Moon Lake which is better than last years 13,700 acre feet on May 1 but less than the average of 17,500 acre feet. Steinkaker had 24,600 a.f. of useable storage on May 1. Last May 1 it had 25,300 acre feet. Starvation now has 127,100 acre feet and last year at this time had 130,800 acre feet in storage. Bottle Hollow now has 11,000 acre feet and is almost full. Flaming Gorge now has 2,728,000 acre feet or an increase of 742,000 acre feet since last May 1st.

Streamflow Forecasts now range from 94% (45,000 a.f.) for Whiterocks River to 135% (115,000 a.f.) for Duchesne at Tabiona for the May-July period. The Duchesne at Duchesne is forecast to flow 202,000 a.f.(130%) and 239,000 a.f. (115%) at Myton. Rock Creek is expected to produce 90,000 a.f. (108%) and Lakefork 60,000 a.f.- 95% below Moon Lake. Yellowstone is expected to produce 54,000 a.f. (96%) and the Uintah River 73,000 a.f.(97%) during the May-July period.

Strawberry River is forecast to produce 40,000 a.f.(100%) at Duchesne and Ashley Creek 50,000 a.f.(119%). Ashley Creek produced 49,000 a.f. last year during this same May-July period. Henry's Fork is forecast to produce 48,000 acre feet (125%) during the April-September period. Flaming Gorge Inflow is forecast at 143% (1,510,000 a.f.) of the April-July average for the 1953-67 period.



MAY 1, 1972

# STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR		PAST RECORD		
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>DUCHESNE RIVER</u>					
Duchesne nr Tabiona (13)	115	135	May-July		85
Duchesne at Duchesne (13)	202	130	May-July		155
Duchesne at Myton (16)	239	115	May-July		208
Duchesne at Randlett (16)	260	114	May-July		228
Strawberry at Duchesne	40	100	May-July		40
Rock Crk nr Mtn. Home	90	108	May-July		83
Lakefork below Moon Lake (14)	60	95	May-July		63
Yellowstone nr Altonah	54	96	May-July		56
Uinta nr Neola	73	97	May-July		75
Whiterocks nr Whiterocks	45	94	May-July		48
<u>FLAMING GORGE TO DUCHESNE RIVER</u>					
Ashley Crk near Vernal	50	119	May-July	49	42
Henry's Fork at Linwood	48	125	Apr-Sept		38
Flaming Gorge Inflow (1)	1510	143	Apr-July	1905	1054

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Ashley Creek</u>	Steinaker	33.3	24.6	25.3	- -
<u>Green River</u>	Flaming Gorge	3749.0	2728.0	1986.0	- -
<u>Lake Fork</u>	Moon Lake	35.8	15.3	13.7	17.5
<u>Strawberry</u>	Starvation	165.3	127.1	130.8	- -
<u>Uintah</u>	Bottle Hollow	11.3	11.0	- -	- -
(1) - Observed flow corrected for change in storage and diversions b - Average for all past record within 15-year period, but less than 15 years x - Adjacent drainage * - Partly estimated					

## UINTAH BASIN &amp; DAGGETT SCD 's

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>UINTAH BASIN SCD</u>						
Currant Creek	7800	4/28	0	0.0	0.0	1.3b
Daniels Strawberry Smt.	8000	4/24	0	0.0	4.6	6.5
Grizzly Ridge	8500	4/27	9	3.2	8.1	- -
Indian Canyon	9100	4/26	25	9.6	6.2	7.8*
Julius Park	9800	4/19	51	16.9	12.6	11.8b
King's Cabin (lower)	8600	4/20	17	4.8	4.2	4.7
King's Cabin (upper)	8730	4/20	27	9.7	8.5	7.0
Lakefork Mountain	10200	4/27	35	11.4	10.8	10.8
Lakefork Mountain #2	8900	4/27	0	0.0	2.1	3.0b
Lakefork Mountain #3	8100	4/27	0	0.0	0.2	0.7b
Mosby Mountain	9500	4/19	30	9.7	8.6	9.0b
Paradise Park	10100	4/19	53	17.3	13.1	11.6b
Rock Creek	7900	4/24	0	0.0	0.0	0.8b
Soapstone R.S. x	7800	4/29	4	1.5	4.2	5.7
Trial Lake x	9800	4/29	85	34.8	33.4	27.3
White River #1	8550	4/28	16	6.4	10.7	7.4*
<u>DAGGETT SCD</u>						
Black's Fork Jct.	8925	4/20	34	11.5	6.3	7.9b
Burnt Creek	7900	4/28	0	0.0	3.4	- -
E. Fk. Black's Fork G.S.	9300	4/20	41	13.1	7.9	9.7b
Hewinta Guard Station	9500	4/20	40	11.6	8.5	9.9b
Hickerson Park	9100	4/20	16	3.4	4.0	- -
Spirit Lake	10300	4/20	62	18.1	12.5	14.4b
Steel Creek Park	9900	4/20	77	23.6	20.2	17.7b
<u>UINTAH BASIN - Aerial Markers</u>						
Ashley Twin Lakes A	10500	4/27	67	21.4	19.2	- -
Atwood Basin A	10250	4/27	33	12.5	11.4	- -
Buck Pasture A	9700	4/27	60	21.0	24.6	- -
Chepeta-Whiterocks Lakes A	10300	4/27	57	18.8	15.2	- -
Five Point Lake A	11000	4/27	62	21.0	18.1	- -
Henry's Fork A	10000	4/27	64	19.2	14.5	- -
Lakefork Basin A	11100	4/27	75	25.0	- -	- -
Reynolds Park A	10400	4/27	58	19.1	21.1	- -
Windy Park A	9400	4/27	36	12.0	11.3	- -

# PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>UINTAH BASIN SCD</u>							
Currant Creek	7800	4/28	2.44	2.26b	19.85	14.61b	136
Daniels-Strawberry Smt. x	8000	4/24	2.64	2.72*	22.33	19.83*	113
East Portal Ridge x	7800	4/28	2.00	3.63	20.61	20.53*	100
Grizzly Ridge	8500	4/27	3.03	- -	18.71	- -	- -
Indian Canyon	9100	4/26	1.93	2.35b	17.75	15.41b	115
Julius Park	9800	4/19	2.45	2.99b	19.00	14.23*	134
King's Cabin (upper)	8730	4/20	2.40	2.84	16.82	12.88*	131
Lakefork Mountain	10200	4/27	2.86	2.55*	19.18	13.64*	141
Moon Lake	8150	5/1	1.06	1.47	10.86	9.01	120
Mosby Mountain	9500	4/19	1.75	- -	16.33	- -	- -
Paradise Park	10100	4/19	2.50	2.98b	20.48	15.52*	132
Rock Creek	7900	4/24	2.54	2.14b	16.97	12.56b	135
Soapstone R.S. x	7800	4/29	3.25	2.94*	22.76	17.61*	129
Trial Lake x	9800	4/29	5.51	3.87	36.28	25.05*	145
White River #1 x	8550	4/28	2.45	2.61b	16.55	15.59*	106
<u>DAGGETT SCD</u>							
Black's Fork Jct.	8925	4/20	3.68	2.75b	19.01	13.08b	145
Burnt Creek	7900	4/28	3.96	- -	15.66	- -	- -
East Fk. Black's Fk. G.S.	9300	4/20	3.92	2.95b	19.41	14.01b	138
Hewinta Guard Station	9500	4/20	4.02	3.18b	20.90	14.95b	140
Hickerson Park	9100	4/20	3.45	- -	13.56	- -	- -
Spirit Lake	10300	4/20	5.08	4.35b	22.85	18.33*	125
Steel Creek Park	9900	5/1	4.98	- -	22.68	- -	- -

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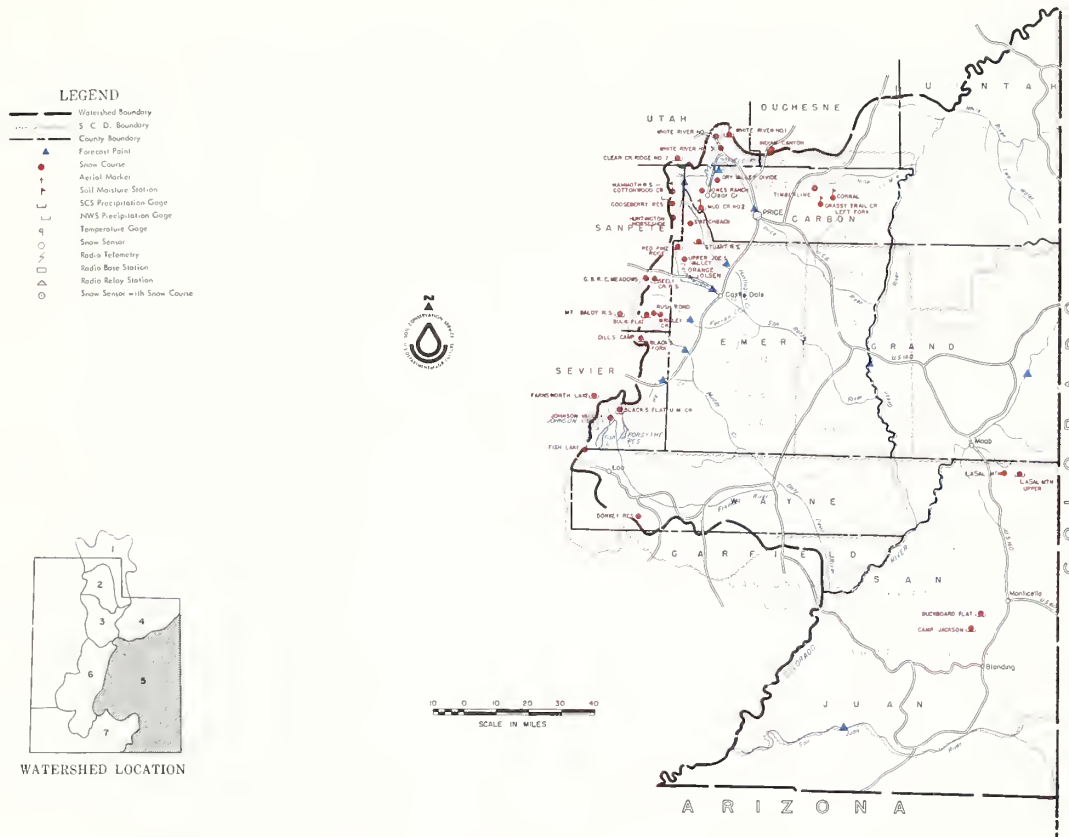
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# WATER SUPPLY OUTLOOK

## CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



MAY 1, 1972

The 1972 Water Supply Outlook for Southeastern Utah now ranges from "below average" to "poor".

Snow Cover ranges from 0 on Blue Mountain snow courses to 59% of the May 1 average on the upper Fremont River snow courses. Price River snow measurements are 58% of the May 1 average for the 1953-67 period and San Rafael snow measurements were 47% of the average water content. Only the upper snow course on the LaSal Mountains had snow and it was only 18% of the May 1 average.

Reservoir Storage is above average. Scofield has 49,000 acre feet or 186% of the May 1 average. Joe's Valley has 42,700 acre feet and Mill Site has 6,800 acre feet. Huntington North Reservoir now has 2840 a.f. in storage.

Streamflow Forecasts now range from 48% of the May-July average for Seven Mile Creek near Fishlake and the Muddy near Emery to 79% of average for Gooseberry Creek above Scofield. Scofield Inflow is expected to be 20,000 a.f. (74%) during the May-July period. Huntington Creek is forecast to produce 28,000 acre feet (74%) - Cottonwood Creek 29,000 acre feet (71%) and Ferron Creek 16,000 acre feet (52%) May through July. Streams heading on the LaSal and Blue Mountains are expected to produce very short water supplies this year. Water shortages can be expected in this whole area by mid season.

The Green River is forecast to flow 2,964,000 acre feet (115%) during the April-July period at Green River, Utah. The Colorado is expected to produce 1,884,000 acre feet (67%) at Cisco and the San Juan at Bluff is now forecast at 53% of average or 472,000 acre feet during the April-July period.



MAY 1, 1972

## STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>PRICE RIVER</u>					
Gooseberry Crk. nr Scofield	7.2	79	May-July	8.2	9.1
Price nr Hiener (15)	30	70	May-July		43
Scofield Reservoir Inflow (15)	20	74	May-July		27
<u>SAN RAFAEL RIVER</u>					
Cottonwood Crk nr Orangeville	29	71	May-July		41
Ferron Crk nr Ferron	16.0	52	May-July	30	31
Huntington Crk nr Huntington	28	74	May-July	39	38
<u>MUDDY RIVER</u>					
Muddy Creek nr Emery	7.0	48	May-July	14.1	14.5
<u>FREMONT RIVER</u>					
Seven Mile Crk. nr Fish Lake	3.0	48	Apr-July		6.2b
<u>UPPER COLORADO BASIN</u>					
Colorado nr Cisco, Utah	1884	67	Apr-July		2802
Green at Green River, Utah	2964	115	Apr-July		2574
Navajo Reservoir Inflow	360	58	Apr-July	305	619
San Juan nr Bluff, Utah	472	53	Apr-July		890

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Price River</u>	Scofield	65.8	49.0	52.7	26.4
<u>San Rafael</u>	Joe's Valley	54.6	42.7	42.7	- -
	Mill Site	16.7	6.8	- -	- -
	Huntington North	3.9	2.8	- -	- -
San Juan	Navajo	1696.4	846.8	868.7	- -
(1) - Observed flow corrected for change in storage and diversions b - Average for all past record within 15-yr period, but less than 15 years x - Adjacent drainage * - Partly estimated					



## CARBON, EMERY, WAYNE, GRAND, &amp; SAN JUAN COUNTIES

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>PRICE RIVER</u>						
Dry Valley Divide	7800	4/28	0	0.0	0.0	3.9b
Gooseberry Reservoir	8700	4/25	20	3.6	14.1	16.1b
Indian Canyon x	9100	4/26	25	9.6	6.2	7.8*
Jones Ranch	7600	4/28	0	0.0	0.0	4.9b
Mammoth R.S. Ctwd. Crk. x	8800	4/25	20	9.2	15.6	16.1b
Mud Creek #2	8300	4/28	0	0.0	3.8	7.4b
White River #1	8550	4/28	16	6.4	10.7	7.4*
White River #2	7600	4/28	0	0.0	0.0	1.0b
White River #3	7400	4/28	0	0.0	0.0	0.2b
<u>SAN RAFAEL RIVER</u>						
Buck Flat	9400	4/25	21	7.9	15.3	15.6b
Gooseberry Reservoir x	8700	4/25	20	8.6	14.1	16.1b
Orange Olsen	7300	4/27	0	0.0	- -	- -
Red Pine Ridge	9400	4/27	17	6.8	11.8	14.1b
Rush Pond	9800	4/25	14	4.6	10.2	11.1b
Seely Creek R.S.	10000	4/28	26	10.8	13.2	15.6b
Stuart R.S.	7950	4/27	0	0.0	0.0	1.0b
Switchback	8600	4/27	13	5.9	8.4	11.9b
Upper Joe's Valley	8900	4/27	0	0.0	0.8	4.9b
Wrigley Creek	9000	4/25	2	0.5	4.1	6.5b
<u>FREMONT RIVER</u>						
Black's Flat-U.M. Creek	9250	4/24	5	2.0	7.6	7.7b
Farnsworth Lake x	9900	4/27	45	16.2	23.6	18.8b
Fish Lake	8700	4/24	0	0.0	0.0	2.0b
Johnson Valley	8850	5/1	0	0.0	0.1	2.2b
Mt. Baldy R.S. x	9500	4/24	39	17.0	25.8	22.9
<u>SOUTHEASTERN UTAH DRAINAGES</u>						
Buckboard Flat	9000	4/27	0	0.0	0.0	5.2b
Camp Jackson	8600	4/27	0	0.0	0.0	2.9b
LaSal Mountain	8800	4/28	0	0.0	3.0	1.5b
LaSal Mountain (upper)	9400	4/28	5	1.9	9.3	10.4b

# PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>PRICE RIVER</u>							
Clear Creek Ridge #2	8000	4/27	6.40	2.97b	22.18	17.29*	128
Gooseberry Reservoir	8700	4/25	2.24 2	3.36*	18.34	20.63*	89
Indian Canyon	9100	4/26	1.93	2.35b	17.75	15.41b	115
Mammoth R.S. #2	8600	4/25	2.27	3.52b	18.61	21.75*	86
Mud Creek	8300	4/28	2.80	2.52*	14.60	16.82*	87
White River #1	8550	4/28	2.45	2.61b	16.55	15.59*	106
<u>SAN RAFAEL RIVER</u>							
Buck Flat	9400	4/25	1.75	3.22b	18.60	19.37*	54
G.B.R.C. Meadows x	10000	4/28	4.35	4.06	24.35	25.09	97
Gooseberry Reservoir x	8700	4/25	2.24	3.36*	18.34	20.63*	89
Orange Olsen	7300	4/27	0.95	- -	10.30	- -	- -
Red Pine Ridge	9400	4/27	3.20	3.64b	24.05	22.62*	106
Stuart R.S.	7950	4/27	2.10	2.15b	16.15	13.36*	113
<u>FREMONT RIVER</u>							
Black's Flat-U.M. Creek	9250	4/24	1.58	2.54b	13.40	14.34*	93
Farnsworth Lake x	9900	4/27	3.77	4.21*	20.89	22.36b	93
Fish Lake	8700	4/24	1.05	1.93b	9.56	10.04b	95
Widtsoe-Escalante #3 x	9500	5/1	1.99	2.75*	14.19	15.19b	93
<u>SOUTHEASTERN UTAH DRAINAGES</u>							
Buckboard Flat	9000	4/27	1.58	2.94b	13.40	19.86b	67
Camp Jackson	8600	4/27	0.20	2.28*	17.13	16.59*	103
LaSal Mountain (upper	9400	4/28	1.30	2.30b	15.65	16.86*	93

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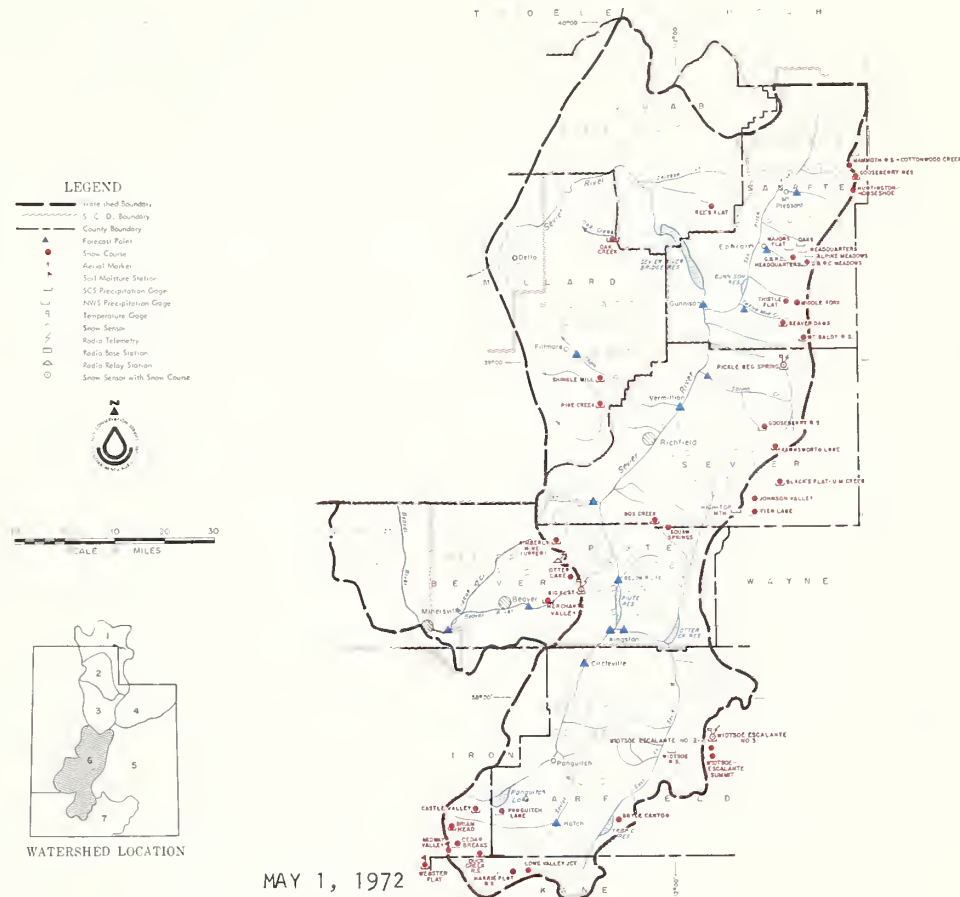
## FIRST CLASS MAIL

*"The Conservation of Water begins with the Snow Survey"*

# WATER SUPPLY OUTLOOK

## SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



The 1972 Water Supply Outlook for the Sevier and Beaver Basins is now "below average" to "poor" in areas without adequate reservoir storage. Storage water is expected to make an average to near average supply where available.

Snow Cover now ranges from 68% of the May 1 average on Salina Creek to 18% of average on the East Fork of the Sevier. Kimberly Mine snow course by itself was only 9% of the May 1 average and most areas below that elevation (9300 ft.) were bare. The Sevier above Hatch had 54% of average snow cover on May 1 and the Beaver River had 60% of average. San Pitch tributaries snow cover ranges from 55% on pleasant Creek to 68% on Ephraim Creek.

Reservoir Storage is above average. The 3 main Sevier River reservoirs now total 270,600 acre feet in storage or 168% of the May 1 average. This is about 20% less than last year at this time. Gunnison Reservoir had 14,400 acre feet in storage on May 1 and Minersville had 16,300 acre feet which is 144% of the May 1 average but about 2600 acre feet less than last year at this time.

Streamflow Forecasts now vary from 35% (1500 a.f.) of average for the Inflow to Rocky Fork Reservoir to 68% of average (9000 a.f.) on Ephraim Creek. The Upper Sevier River forecasts range from 15,300 a.f. (57%) at Hatch, 9000 a.f. (45%) at Circleville, 4000 a.f. (37%) at Kingston for the May-July period. The Sevier below Piute Dam is expected to produce 6500 a.f. (45%) including 3800 a.f. (59%) from the East Fork. Clear Creek is forecast to flow 6300 a.f. (60%) and Vermillion Dam to Gunnison Inflow is expected to be about 60% of the May-June average flow and Salina Creek is expected to produce 3000 a.f. (60%) during the same period. The Sevier at Gunnison is expected to produce 10,000 a.f. (46%) during May-July period.

Chalk Creek near Fillmore is forecast to flow 3100 a.f. (30%) during the May-July period and the Beaver River is expected to produce 7500 a.f. (45%) during the May-July period.

Streams in this area are expected to fall to minimum flows much earlier than usual this season and water supply shortages can be expected on streams without reservoir storage by mid June.



MAY 1, 1972

## STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>SEVIER RIVER</u>					
Chalk Creek nr Fillmore	3.1	30	May-July		10.4
Clear Crk nr Sevier (abv. Div.)	6.3	60	May-July		10.5b
East Fork Sevier nr Kingston (9)	3.8	59	May-July		6.4
Antimony Crk nr Antimony	3.5	60	May-July		5.9b
Inflow					
Kingston to Vermillion Dam	16.2	54	Apr-June		30 b
Vermillion Dam to Gunnison	15.6	60	May-June		26
Salina Crk at Salina (10)	3.0	60	May-June		5.0*
Sevier nr Circleville	9.0	45	May-July		20
Sevier nr Gunnison	10.0	46	May-July		21.9
Sevier at Hatch	15.3	57	May-July		27
Sevier nr Kingston	4.0	37	May-July		10.7
Sevier below Piute Dam (11)	6.5	45	May-July		14.5
<u>SAN PITCH RIVER</u>					
Ephraim Creek nr Ephraim	9.0	68	May-July		13.2b
Pleasant Crk. nr Mt. Pleasant	4.6	67	May-July		6.8b
<u>BEAVER RIVER</u>					
Beaver nr Beaver	7.5	45	May-July		16.5
Rockyford Reservoir Inflow (12)	1.5	35	May-June		4.3

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Creek nr Sevier (above div.)	5	July 1	July 19
Salina Creek at Salina	25	May 26	June 10
Sevier at Circleville(Circle Valley)	90	May 26	June 24
Sevier at Hatch (upper)	100	June 1	July 10

## PRIMARY WATER RIGHT FORECASTS (PERCENT OF WATER RIGHT DELIVERED)

RIVER SECTION	Percent Forecast For This Year	Average Percent Delivered During 15 year Period†	Forecast Period
<u>Sevier River</u>			
Below Vermillion Dam	40	58	Apr-Sept
Circle Valley	50	66	Apr-Sept
Panguitch Valley	70	84	Apr-Sept
Sevier Valley	30	40	Apr-Sept

## OTHER SPECIAL FORECASTS

Below Vermillion - Very little flow above 360 second feet is now expected this year.

(1) Observed flow corrected for change in storage and diversions  
 b Average for all past record within 15-yr period, but less than 15 years.

\* Partly estimated

x Adjacent drainage



## SEVIER RIVER BASIN including BEAVER RIVER

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average †
NAME	Elevation					
<u>UPPER SEVIER RIVER</u>						
<u>(South of Richfield, Utah)</u>						
Big Flat x	10290	4/24	37	13.7	17.1	17.8
Box Creek	9800	4/24	5	2.2	8.1	10.2b
Castle Valley	9700	4/28	0	0.0	1.5	6.7b
Duck Creek R.S.	8700	4/28	0	0.0	0.0	4.6
Fish Lake	8700	4/24	0	0.0	0.0	2.0b
Harris Flat R.S.	7700	4/28	0	0.0	0.0	0.7
Kimberly Mine	9300	5/1	3	1.2	11.8	12.8b
Long Valley Jct.	7500	4/28	0	0.0	0.0	0.1b
Midway Valley	9800	4/25	36	17.2	14.6	19.7b
Panguitch Lake	8200	4/28	0	0.0	0.0	0.1
Squaw Springs	9300	5/1	0	0.0	0.0	2.6b
Widtsoe-Escalante	9500	5/1	0	0.0	0.0	2.6
Widtsoe-Escalante #2	9500	5/1	2	0.5	2.6	5.3
Widtsoe-Escalante #3	9500	5/1	7	2.4	4.6	7.4b
<u>LOWER SEVIER RIVER</u>						
<u>(including San Pitch)</u>						
Beaver Dams	8000	4/24	0	0.0	2.5	5.8
Farnsworth Lake	9900	4/27	45	16.2	23.6	18.8
G.B.R.C. Headquarters	8700	4/28	19	7.8	13.1	13.5
G.B.R.C. Meadows	10000	4/28	45	19.2	27.7	26.3
Gooseberry R.S.	8400	4/23	4	1.2	9.4	6.9
Gooseberry Reservoir x	8700	4/25	20	8.6	14.1	16.1b
Mammoth R.S. - Ctnwd. Crk	8800	4/25	20	9.2	15.6	16.1b
Mt. Baldy R.S.	9500	4/24	39	17.0	25.8	22.9
Oak Creek	7760	4/28	0	0.0	5.4	- -
Pickle Keg Springs	9600	4/21	11	4.4	11.0	- -
Pine Creek	8700	4/26	8	1.7	9.0	11.0b
Shingle Mill	6200	4/26	0	0.0	0.0	0.8b
Big Flat	10290	4/24	37	13.7	17.1	17.8
Merchant Valley	8200	4/24	0	0.0	1.5	2.8
Otter Lake	9300	4/24	15	6.1	11.1	12.2

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

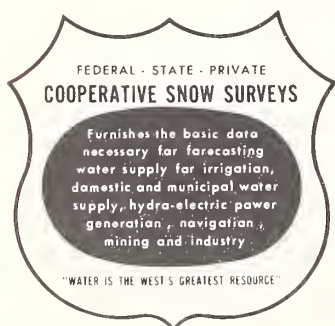
Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Sevier River</u>	Gunnison	18.2	14.4	15.7	- -
	Otter Creek	52.5	39.7	51.7	31.4
	Piute	71.8	58.2	52.8	35.0
	Sevier Bridge	236.0	172.7	230.8	94.6
<u>Beaver River</u>	Minersville(Rky Fd)	23.3	16.3	18.9	11.3

# PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
Beaver Dams	8000	4/24	2.30	2.72b	14.90	17.04*	87
Big Flat x	10290	4/24	1.25	3.30*	12.78	18.82*	68
Box Creek	9800	4/24	1.89	2.86b	13.94	16.06b	87
Castle Valley	9700	4/28	2.29	3.60b	14.22	18.09b	79
Duck Creek R.S.	8700	4/28	2.18	3.10	18.61	19.75*	94
Farnsworth Lake	9900	4/27	3.77	4.21*	20.89	22.36b	93
Fish Lake	8700	4/24	1.05	1.93b	9.56	10.04b	95
G.B.R.C. Headquarters	8700	4/28	4.35	3.78	19.62	21.35	92
G.B.R.C. Meadows	10000	4/28	4.35	4.06	24.35	25.09	97
G.B.R.C. Oaks	7655	4/28	3.27	2.58	13.57	14.63	93
Gooseberry R.S.	7800	4/27	3.20	2.50*	15.33	15.09*	102
Gooseberry Reservoir x	8700	4/25	2.24	3.36*	18.34	20.63*	89
Kimberly Mine	9300	5/1	2.95	4.21*	15.48	21.33*	72
Mammoth R.S. #2 x	8600	4/25	2.27	3.52b	18.61	21.75*	86
Mt. Baldy	9500	4/24	2.20	3.49b	17.65	19.34*	91
Oak Creek	7760	4/28	2.57	- -	15.95	- -	- -
Panguitch Lake	8200	4/28	1.08	1.32b	10.57	8.12b	130
Pickle Keg Springs	9600	No	Data	- -	- -	- -	- -
Pine Creek	8700	4/26	5.66	4.8b	25.72	26.54b	97
Shingle Mill	6200	4/26	4.36	2.79b	18.11	16.54*	109
Webster Flat x	9200	4/25	2.60	4.05	20.08	22.00*	91
Widtsoe-Escalante #3	9500	5/1	1.99	2.75*	14.19	15.19b	93
Widtsoe R.S.	7600	5/1	0.49	0.82	5.80	5.37	108
Midway Valley	9800	4/25	2.50	- -	19.46	- -	- -
Beaver Canyon P.H.	7275	5/1	1.22	2.10	8.52	- -	- -
Big Flat	10290	4/24	1.25	3.30*	12.78	18.82*	68
Merchant's Valley	8650	4/24	1.40	- -	10.97	- -	- -

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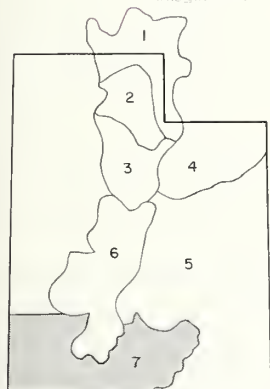
# WATER SUPPLY OUTLOOK

## EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

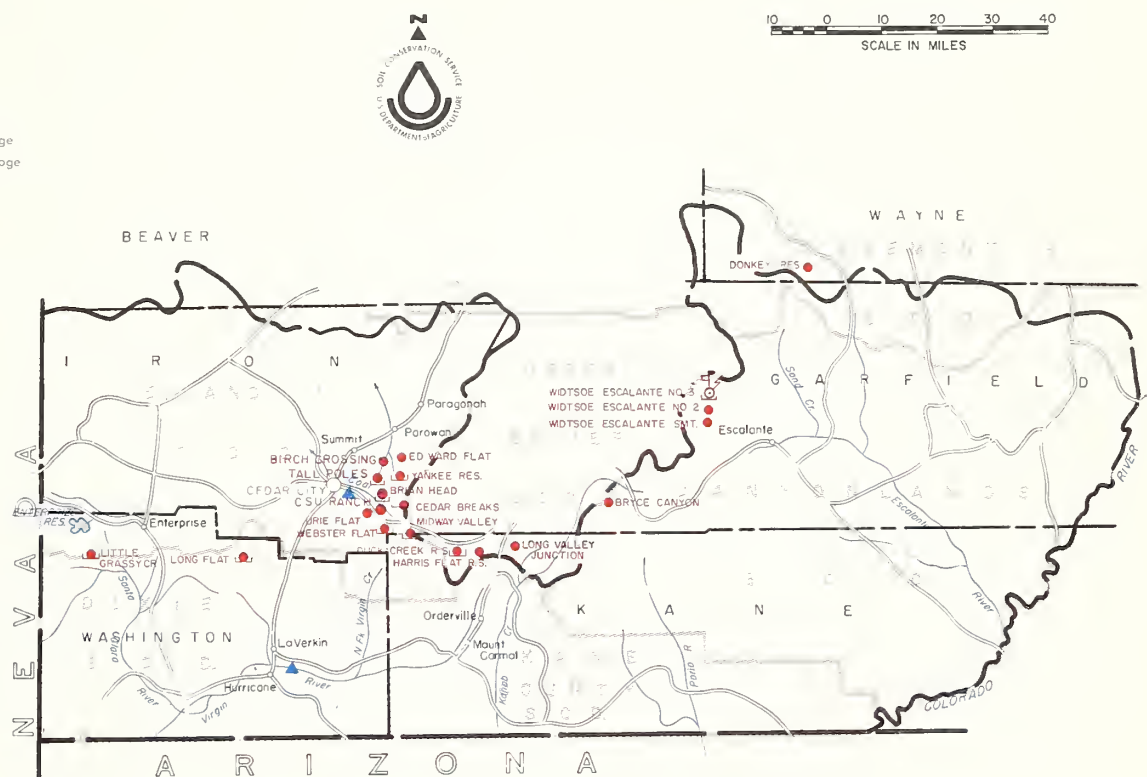
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UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS

### LEGEND

- Watershed Boundary
- - - S. C. D. Boundary
- - - County Boundary
- ▲ Forecast Point
- Snow Course
- + Aerial Marker
- Soil Moisture Station
- SCS Precipitation Gage
- NWS Precipitation Gage
- Temperature Gage
- Snow Sensor
- Radio Telemetry
- Radio Base Station
- Radio Relay Station
- Snow Sensor with Snow Course



WATERSHED LOCATION



MAY 1, 1972

The Water Supply Outlook remains "poor" for Southwestern Utah.

Snow Cover is only 50 to 60% of the May 1 average. Medium and lower elevations are bare. April precipitation was below average at all stations except Yankee Reservoir which measured 108% of the 15 year (1953-67) average for the month.

Reservoir Storage in Lake Powell was 13,224,000 a.f. on May 1. Last year it held 12,511,000 acre feet on May 1.

Streamflow Forecasts now range from 42% of average on the Santa Clara for the May-June period to 86% for the Inflow to Lake Powell during the April-July period. Virgin River is forecast to flow 10,000 acre feet (45%) during the May-June period and Coal Creek is expected to produce only 5,000 acre feet (46%) during the May-July period.

Water supply shortages are expected in this area by mid-summer.



MAY 1, 1972

# STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>VIRGIN RIVER</u>					
Virgin nr Virgin	10.0	45	May-June		22
Santa Clara nr Pine Valley	1.0	42	May-June		2.4
<u>COAL CREEK</u>					
Coal Crk nr Cedar City	5.0	46	May-July		10.9
<u>UPPER COLORADO BASIN</u>					
Lake Powell Inflow	5610	86	Apr-July	8378	6527

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Colorado</u>	Lake Powell	25002.0	13,224.0	12511.0	- -
b - Average for all past record within 15 year period, but less than 15 years. x - Adjacent Drainage * - Partly estimated					



## EAST GARFIELD, KANE, WASHINGTON &amp; IRON

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>ESCALANTE RIVER</u>						
Widtsoe-Escalante Smt.	9500	5/1	0	0.0	0.0	2.6
Widtsoe-Escalante #2	9500	5/1	2	0.5	2.6	5.3
Widtsoe-Escalante #3	9500	5/1	7	2.4	4.6	7.4b
<u>VIRGIN RIVER &amp; COAL CREEK</u>						
CSU Ranch	8200	4/25	0	0.0	0.0	- -
Duck Creek R.S.	8700	4/28	0	0.0	0.0	4.6
Harris Flat x	7000	4/28	0	0.0	0.0	0.7
Midway Valley x	9800	4/25	36	17.2	14.6	19.7b
Urie Flat	8450	4/25	0	0.0	0.0	1.3b
Webster Flat	9200	4/25	0	0.0	3.8	8.9
<u>PAROWAN CREEK</u>						
Birch Crossing	8100	4/25	0	0.0	0.0	- -
Brian Head	10000	4/25	36	15.5	17.1	- -
Ed Ward Flat	8300	4/25	0	0.0	0.0	1.7b
Tall Poles	8800	4/25	15	5.8	10.2	- -
Yankee Reservoir	8700	4/25	0	0.0	2.2	5.6b
<u>ENTERPRISE TO NEW HARMONY DRAINAGES</u>						
Little Grassy Creek	6100	4/28	0	0.0	0.0	0.0b
Long Flat	8000	4/26	0	0.0	0.0	0.4b

# PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>ESCALANTE RIVER</u>							
Widtsoe-Escalante #3	9500	5/1	1.99	2.75*	14.19	15.19b	93
<u>VIRGIN RIVER</u>							
Duck Creek R.S.	8700	4/28	2.18	3.10	18.61	19.75*	94
Webster Flat	9200	4/25	2.60	4.05	20.08	22.00*	91
<u>COAL CREEK</u>							
Webster Flat	9200	4/25	2.60	4.05	20.08	22.00*	91
<u>PAROWAN CREEK</u>							
Tall Poles	8800	4/25	3.15	- -	17.19	- -	- -
Yankee Reservoir	8700	4/25	2.86	2.66b	13.52	13.99b	97
<u>ENTERPRISE TO NEW HARMONY DRAINAGE</u>							
Little Grassy Creek	6100	4/28	1.45	2.06b	13.60	13.74*	99
Long Flat	8000	4/26	1.70	2.29b	11.84	13.85b	85

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# HORSE RIDGE

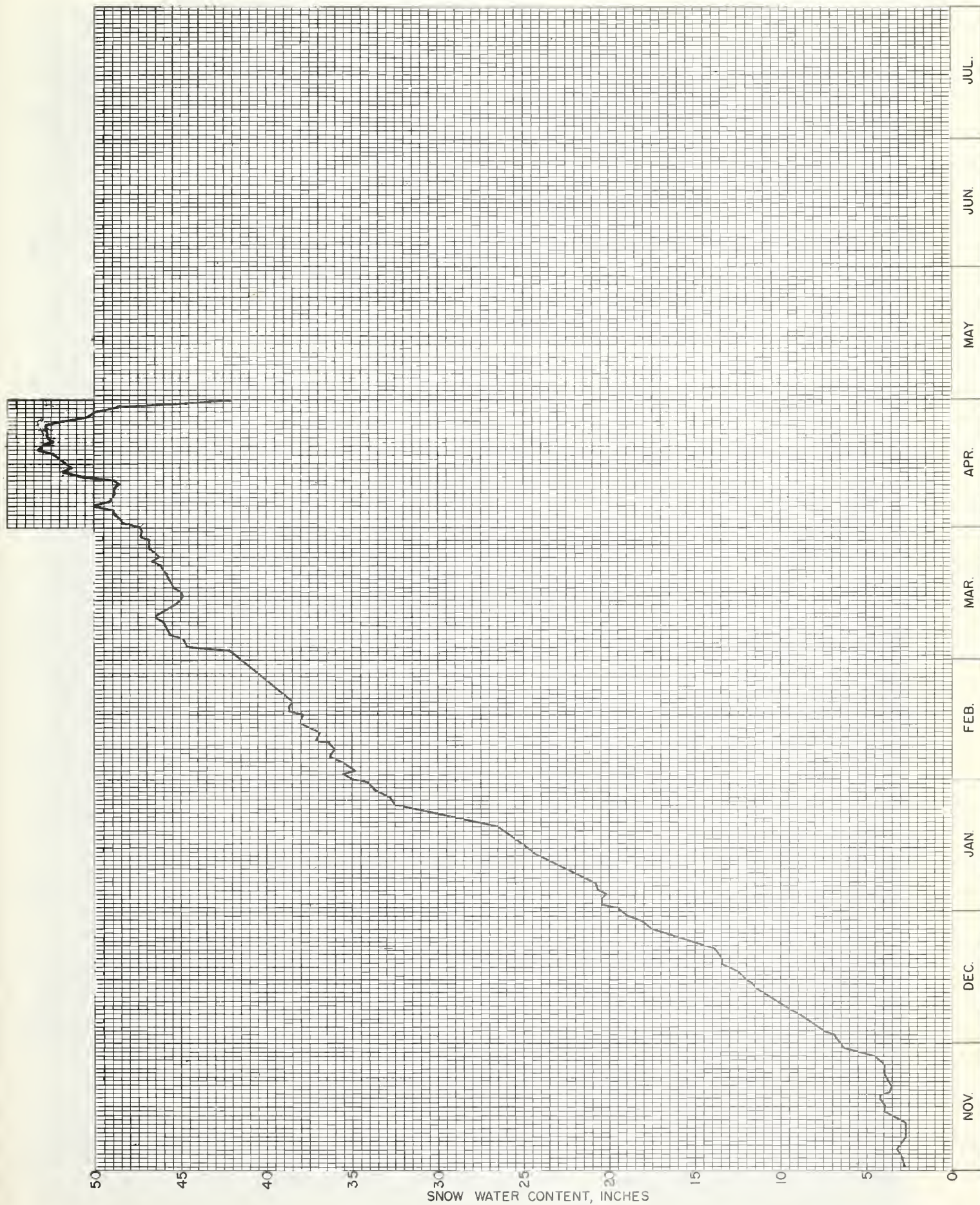
## SNOW PILLOW DATA

WATER YEAR \_\_\_\_\_

No. 11H21

Elev. 8260

Drainage: Lost Creek





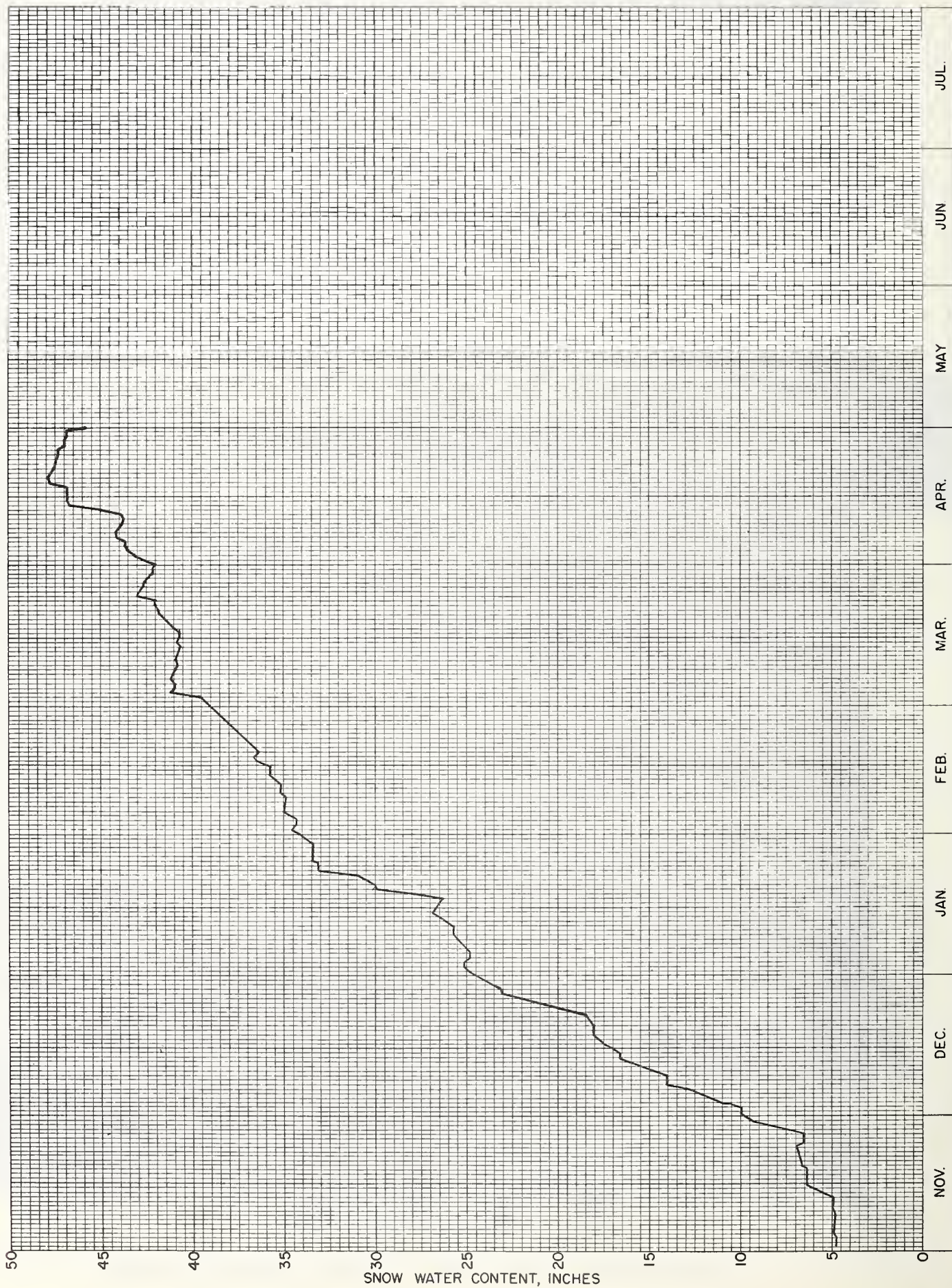
FARMINGTON CANYON (upper)

SNOW PILLOW DATA  
WATER YEAR 1972

No. 11J11

Elev. 8000

Drainage: Farmington Creek





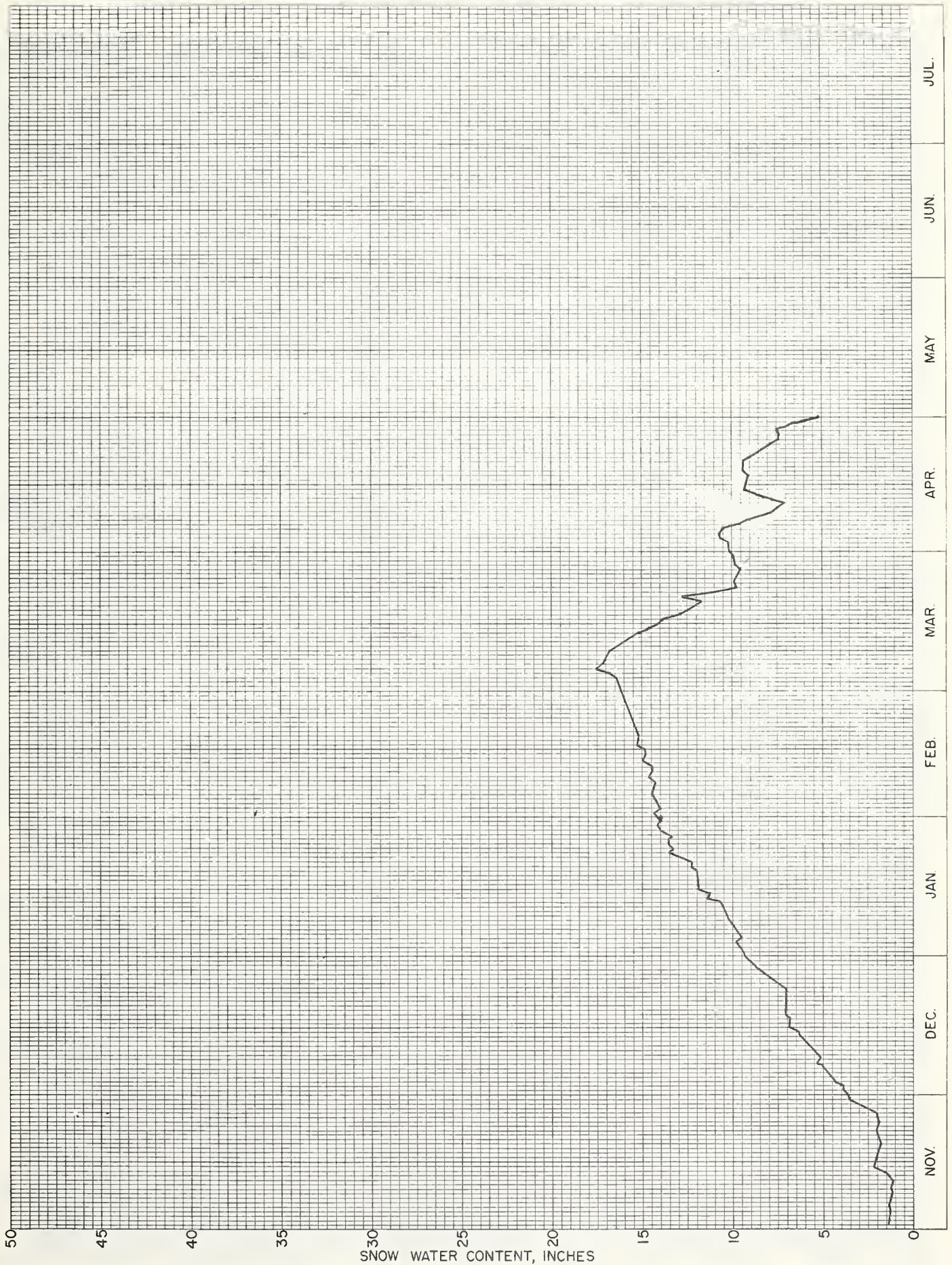
PARLEY'S CANYON SUMMIT

SNOW PILLOW DATA  
WATER YEAR 1972

No. 11J15

Elev. 7500

Drainage: East Canyon Crk. - Weber River

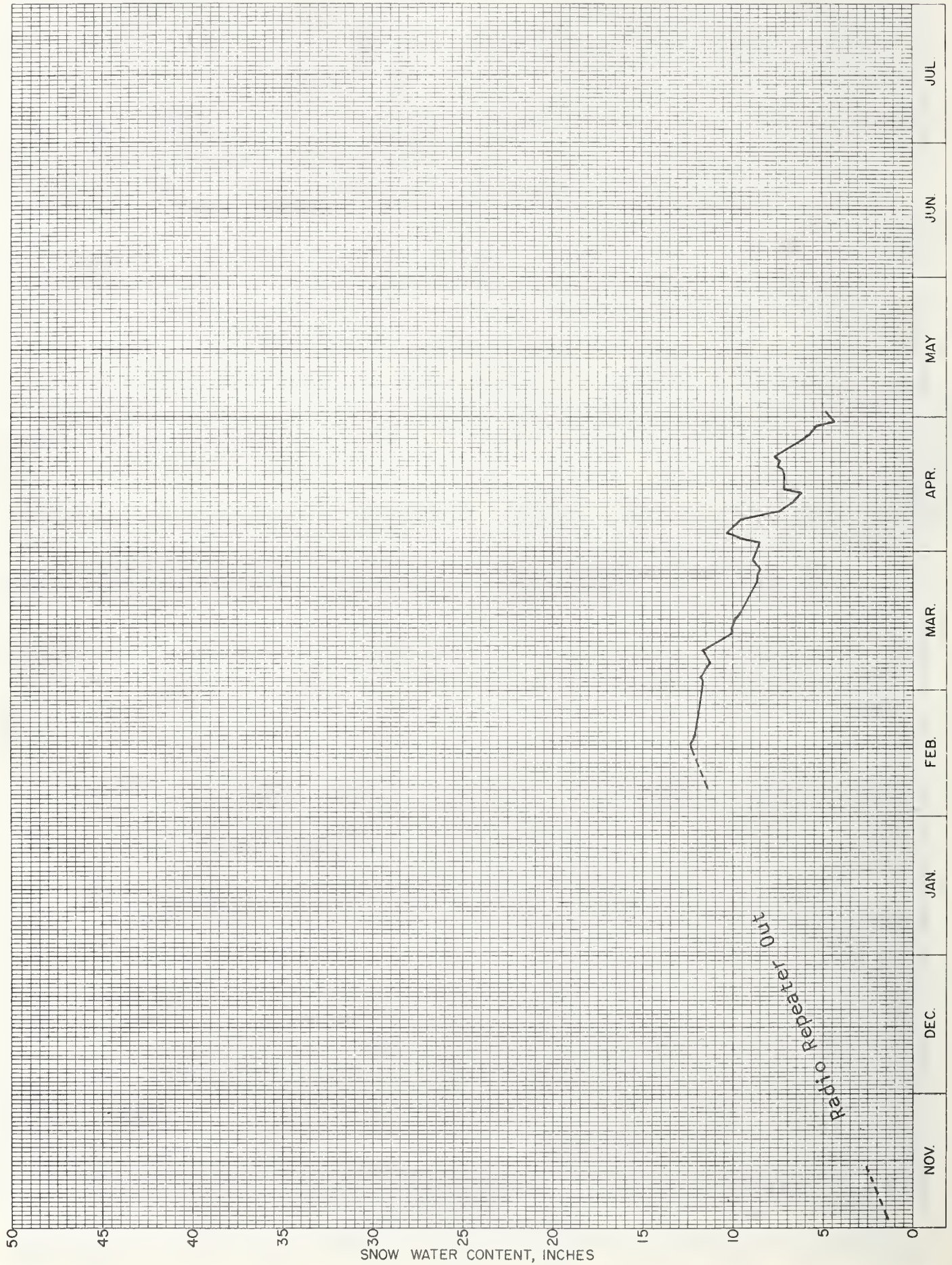




PICKLE KEG SPRINGS

SNOW PILLOW DATA  
WATER YEAR 1972

No. 11K39 Elev. 9600 Drainage: Salina Creek

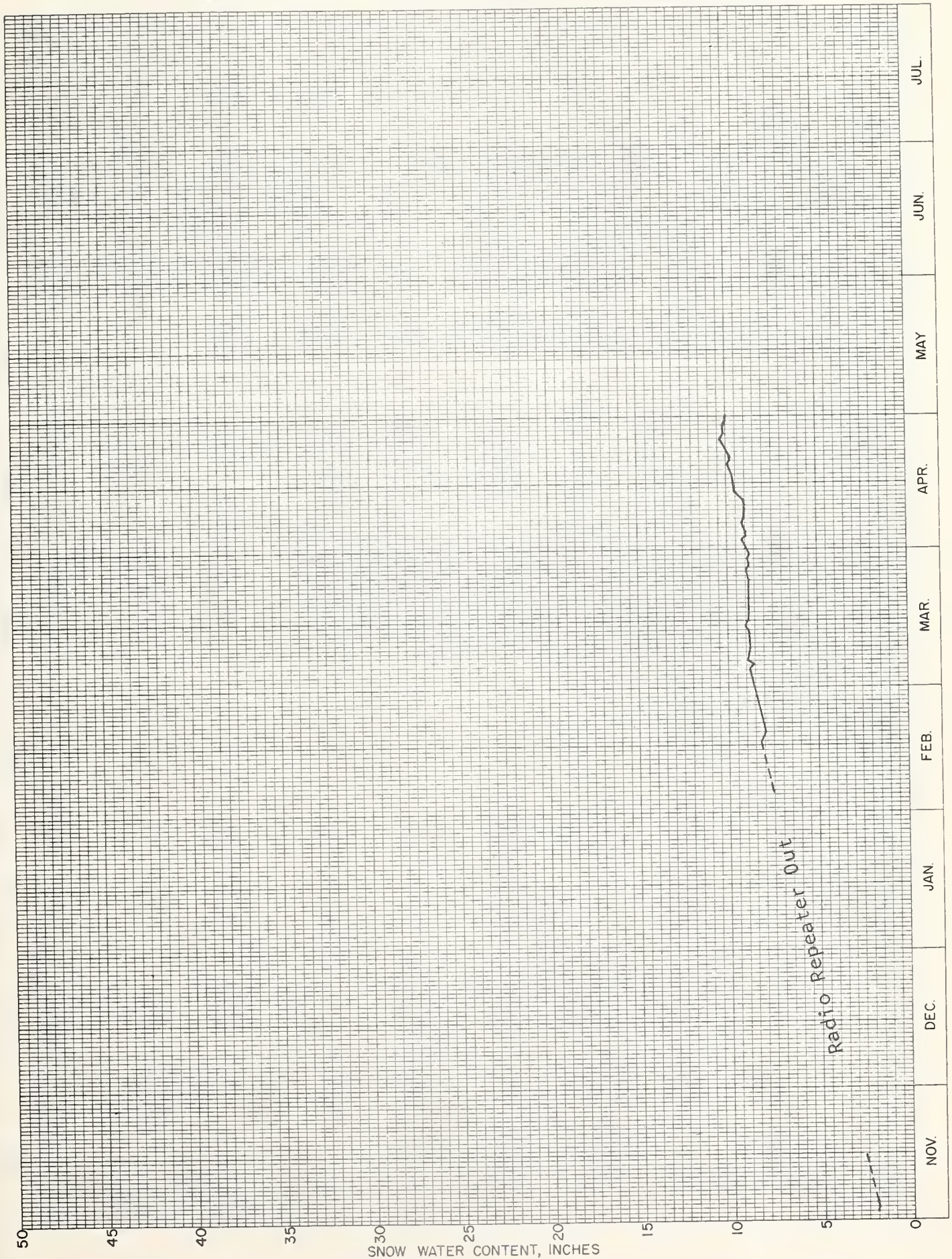




# BIG FLAT

SNOW PILLOW DATA  
WATER YEAR 1972

No. 12L7 Elev. 10,000 Drainage: Beaver River

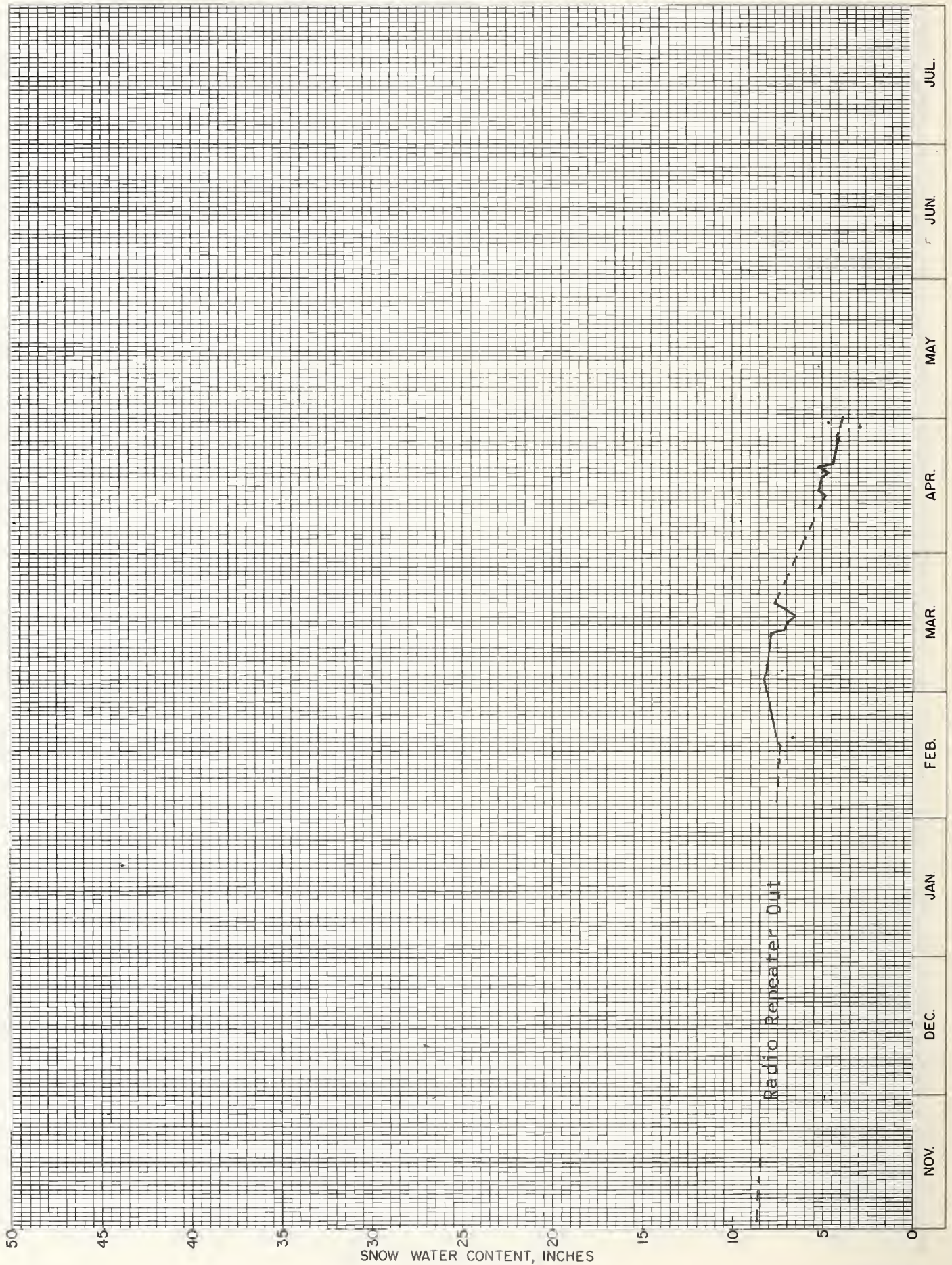




WIDTSOE-ESCALANTE #3

SNOW PILLOW DATA  
WATER YEAR 1972

No. 11M3 Elev. 9500 Drainage: East Fork-Sevier River





# Agencies Cooperating in Utah Snow Surveys

## U. S. GOVERNMENT AGENCIES

- U. S. Department of Agriculture
  - Soil Conservation Service
  - Forest Service
- U. S. Department of Commerce
  - NOAA, National Weather Service
- U. S. Department of Interior
  - Bureau of Reclamation
  - Geological Survey
  - National Park Service

## STATE AGENCIES

- Utah State University
- Utah Fish and Game Department
- Utah State Department of Natural Resources, Division of Water Rights
  - Bear River Commissioner
  - Price River Commissioner
  - Provo River Commissioner
  - Sevier River Commissioners
  - Spanish Fork River Commissioner
  - Utah Lake and Jordan River Commissioner

## MUNICIPALITIES

- Manti
- Salt Lake City

## ORGANIZED PUBLIC AGENCIES

- Beaver River Water Users Association
- Board of Canal Presidents - Jordan River
- Emery Canal and Reservoir Company
- Moon Lake Water Users Association
- Ogden River Water Users Association
- Provo River Water Users Association
- Strawberry Water Users Association
- Sevier River Water Users Association

## PRIVATE AGENCIES

- Kaiser Steel Corporation

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## FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*